

SEMESTER – II
DATA STRUCTURES

1. Course Description

Programme: B.Sc.

Course Code: U26/CSC/DSC/201

Course Type: DSC

No. of credits: 4

Max. Hours:60

Hours per week:4

Max. Marks: 100

2. Course Objectives

1. To provide the knowledge of basic data structures and their implementations.
2. To develop skills to apply appropriate data structures in problem solving.

3. Course Outcomes:

After the successful completion of the course, the student will be able to:


CO1: To *demonstrate* an *understanding* of basic data structures and solve problems of Sorting, searching. (LII & L III)

CO2: *Illustrate* linear data structure such as stacks, queues and their applications. (L III)

CO3: *Analyze* operations on linked lists and compare different linked list types(L IV)

CO4: To *describe* basic operations on trees and graphs and various graph traversal techniques. (L II)


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4. Course Content

MODULE I: **15 Hours**

INTRODUCTION TO DATA STRUCTURES

Introduction to data structures, Types of data structures, Data structure Operations. Array: Array Traversal, Linear Search, Binary Search; Sorting using Non-Recursive Methods-Bubble Sort, Selection Sort and Insertion Sort; Sorting using Recursive methods- Merge Sort and Quick Sort.

MODULE II: **15 Hours**

STACKS AND QUEUES

Stacks-Introduction, Stacks, stack operations, applications of stack,stack Implementation. Queues- Introduction, Queues-Basic Concept, Queue Operations,applications of Queue, Queue Implementation. Circular Queues.

MODULE III: **15 Hours**

LINKED LIST

Introduction to Linked Lists- Basic Concept,Types of Linked Lists,Single Linked List Implementation, Linked List implementation of Stack, Linked List implementation of Queue, Doubly Linked List.

MODULE IV: **15 Hours**

TREES AND GRAPHS

Trees- Introduction, Binary Tree, Binary Tree Representation, Binary Tree, Traversal, Binary Search Tree, Applications of Trees- Heap Sort. Introduction to Graphs- Types of Graphs,Graph Implementation- ArrayGraph Traversal-Depth First Search, Breadth First Search. Spanning Tree, Prim's Algorithm, Kruskal's Algorithm.

5. References:

1. Data Structures Using C ,byE.Bala Guruswamy, McGraw Hill Education,FirstEdition,2017
2. Data Structures, by G.S.Baluja, Dhanpat Rai & Co. (P) Limited, First Edition
3. The Ultimate C with Data Structures, Wiley India, by R. NAGESWARA RAO
4. Data Structures With C By Seymour Lipschutz ,Schaum's outline series.



6.Syllabus Focus**a) Relevance to Local, Regional, National and Global Development Needs**

Local /Regional/National /Global Development Needs	Relevance
Global	This course helps students learn different Algorithms in data Structures

b) Components on Skill Development/Entrepreneurship Development/Employability

SD/ED/EMP	Syllabus Content	Description of Activity
SD	Module I, II	Understanding and applying various searching, sorting techniques. Implementing stacks and queues.
SD	Module III, IV	Practical implementation of linked lists, trees and graphs.

7.Pedagogy

S. No	Student Centric Methods Adopted	Type / Description of Activity
1.	Group Discussion	Participative Learning Group Discussion
2.	Interactive Classroom games	Experiential Learning
3.	Problem solving	Case studies



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8. Course Assessment Plan

a) Weightage of Marks in Continuous Internal Assessments and End Semester Examination

CO	Continuous Internal Assessments CIA - 40%	End Semester Examination- 60%
CO1	CIA-1 Quiz test or subjective	Written Exam
CO2	CIA-1 Written exam	
CO3	CIA-2 Written Assignment	
CO4	CIA-2 Presentation	


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b) Model Question Paper- End Semester Exam

DATA STRUCTURES

Course Code: U26/CSC/DSC/201

Max.Marks:60

Credits:4

Time: 2 hrs

SECTION - A (Long Essay Type)

I. Answer ALL questions

Marks: 4 x 10 =40

1. a) Write a program to implement selection sort.
b) Trace the following list using selection sort 23 12 35 19 41 38
OR
2. Write a program to implement merge sort.
3. Explain applications of stacks.
OR
4. Explain the concept of Stack. Write a program to implement a stack using arrays.
5. Explain single linked lists. Write a program to insert at the beginning and end and display the elements of a single linked list
OR
6. Write a program to perform the linked queue operations.
7. Explain binary trees. List and explain the various tree traversals with an example.
OR
8. Explain Spanning Tree. Explain with example any one minimum Spanning Tree Algorithm.

SECTION - B (Short Essay Type)

II. Answer any Four

4x 5=20 M

9. Write a program to sort the elements using bubble sort.
10. Explain doubly linked list.
11. Explain Binary Search with example.
12. Write the node structure for a single linked list.
13. Explain Circular Queue.
14. Explain Breadth First Search with examples.

SK

Dr. Sujatha Yamma

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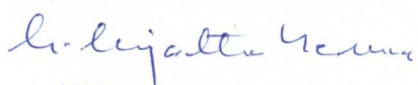
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Question Paper format – Blooms Taxonomy Level

SECTION A - INTERNAL CHOICE			4Q X 10 M = 40 M	
Question No	Module Covered	Question	CO	BTL (Blooms Taxonomy Level)
1	Module 1	a) Write a program to implement selection sort. b) Trace the following list using selection sort 23 12 35 19 41 38	CO 1	Level II & III
2	Module 1	Write a program to implement merge sort.	CO 1	Level II & III
3	Module 2	Explain applications of stacks.	CO 2	Level III
4	Module 2	Explain the concept of Stack. Write a program to implement a stack using arrays.	CO 2	Level III
5	Module 3	Explain single linked lists. Write a program to insert at the beginning and end and display the elements of a single linked list	CO 3	Level IV
6	Module 3	Explain Queue. Write a program to perform the linked queue operations.	CO 3	Level IV
7	Module 4	Explain binary trees. List and explain the various tree traversals with an example.	CO 4	Level II
8	Module 4	Explain Spanning Tree. Explain with example any one minimum Spanning Tree Algorithm.	CO 4	Level II
SECTION B - ANSWER ANY 4 OUT OF 6 (To compulsorily have ONE question from each module)			4Q X 5 M = 20 M	
9	Module 1	Write a program to sort the elements using bubble sort.	CO 1	Level II & III
10	Module 3	Explain doubly linked list.	CO 3	Level IV
11	Module 1	Explain Binary Search with example.	CO 1	Level II & III
12	Module 3	Write the node structure for a single linked list.	CO 3	Level IV
13	Module 2	Explain Circular Queue	CO 2	Level III
14	Module 4	Explain Breadth First Search with examples.	CO 4	Level II

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c) Question Paper Blueprint

Modules	Hours Allotted in the Syllabus	COs Addressed	Section A (No. of Questions)	Total Marks	Section B (No. of Questions)	Total Marks
1	15 hrs	CO-1	2	4x10=40	6 (By taking at least one question from each Module)	4x5=20
2	15 hrs	CO-2	2			
3	15 hrs	CO-3	2			
4	15 hrs	CO-4	2			

9. CO-PO Mapping

CO	PO	Cognitive Level	Class room sessions(hrs.)
1	1	Analyze	15
2	2	Understand	15
3	1	Remember	15
4	2	Understand	15

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DATA STRUCTURES
Practical Syllabus

1. Course Description

Programme: B.Sc.
Course Code: U26/CSC/DSC/201/P
Course Type: DSC
No. of credits: 1

Max. Hours: 30
Hours per week: 2
Max. Marks: 50

2. Course Objective:

To introduce the fundamental concepts of data structures through C language


3. Course Outcomes:

CO1: To understand searching and sorting techniques using coding exercise
CO2: Apply the principles of stacks, queues and linked lists

4. Course Content:

1. Program to implement linear search.
2. Program to implement Binary search.
3. Program to implement Bubble sort.
4. Program to implement Selection sort.
5. Program to implement Insertion sort.
6. Program to implement Merge sort.
7. Program to implement Quick sort.
8. Program to implement Stack using arrays.
9. Program to implement Queue using arrays.
10. Program to implement Single Linked List.
11. Program to implement Stack using Linked List.
12. Program to implement Queue using Linked List.
13. Program to implement Double Linked List.
14. Program to implement Recursive Binary tree traversals


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PRACTICAL MODEL PAPER

Programme: B.Sc.
Course Code: U26/CSC/DSC/201/P
Type of Course: DSC
No. of credits: 1


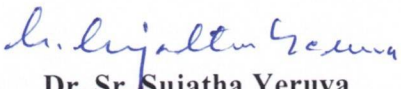

Max. Marks: 50
Time :2 hours

I. Answer the following questions


1. Write a C Program to implement Selection Sort.
2. Write a program to implement operation of Queue
3. Write a C Program to implement Stack using linked lists.

OR

4. Write a C Program to implement Binary tree traversals.

Prepared by	Checked &verified by	Approved by
 Ms. Jenifer Teaching faculty	 Dr. Sr. Sujatha Yeruva HoD	 Prof. Uma Joseph Principal


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SEMESTER - II
SOFTWARE ENGINEERING

1. Course Description

Programme: B.Sc. S.E.(H)
Course Code: U26/CSH/DSC/201
Course Type: DSC
No. of credits: 4

Max. Hours: 60
Hours per week: 4
Max. Marks: 100

2. Course Objectives

To introduce the concepts of software process, software requirements, architecture and design, rapid software development.

3. Course Outcomes


After the successful completion of the course, the student will be able to

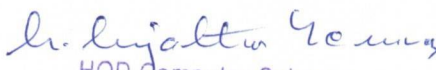
CO1: To *outline* processes necessary for software engineering practice. (L I)

CO2: To *define* types of requirements and its analysis process. (L I)

CO3: To *describe* the Software Design and Architecture process. (L II)

CO4: To *develop* systems using basics of rapid software development. (L VI)


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4. Course Content

MODULE I: **15 Hours**

Introduction

Introduction: Introduction to Software Engineering, Software Development Life Cycle (SDLC), professional and ethical responsibility.

Process models: The waterfall model, incremental process models, evolutionary process models, Agile Model, The unified process.

Software processes-software process, process iteration, process activities, software validations.

MODULE II: **15 Hours**

S/W Requirements & Engineering Process

Software Requirement- Functional and non-functional requirements, user requirements, system requirements, interface specification, the software requirements document; Requirements engineering process- Feasibility studies.

MODULE III: **15 Hours**

Architectural Design

Real time software design- System design, real time operating systems, monitoring and control systems.

MODULE IV: **15 Hours**


Rapid Software Development

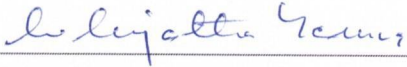
Rapid software development – Agile methods for Online Shopping Case study, Software prototyping; Verification and Validation – Planning Verification and Validation, software inspection.

5. Reference Books

1. Somerville, Software Engineering (8th Edition). Pearson Education.
2. Software Engineering: A Practitioner's Approach – Roger S. Pressman, Bruce R. Maxim (8th Edition), McGraw-Hill Education

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6. Syllabus Focus

a) Relevance to Local, Regional, National and Global Development Needs

Local/Regional/National /Global Development Needs	Relevance
Global Development	To introduce the concepts of Software engineering and Software development life cycle (SDLC)

b) Components on Skill Development/Entrepreneurship Development/Employability

SD/ED/EMP	Syllabus Content	Description of Activity
Skill Development	Modules 1 and 2	To Understand the concept of software engineering and process models and requirement analysis.
Employability	Modules 3 and 4	Detailed understanding of Design and Agile Methodologies.

7. Pedagogy

S. No	Student Centric Methods Adopted	Type/Description of Activity
1.	Seminar Presentation	Participative Learning
2.	Interactive Classrooms games/Quiz	Experiential Learning
3.	Case Studies	Problem Solving
4.	Group Discussion	Participative Learning

8.Course Assessment Plan

a) Weightage of Marks in Continuous Internal Assessments and End Semester Examination

CO	Continuous Internal Assessments – CIA (40%)	End Semester Examination (60%)
CO1	CIA-1 Written Test	Written Exam
CO2	CIA-1 Written Test	
CO3	CIA-2 MCQ's or Presentation	
CO4	CIA-2 Quiz test or subjective	

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b) Model Question Paper – End Semester Exam Theory

SOFTWARE ENGINEERING

Course Code: U26/CSH/DSC/201

Max Marks: 60

Credits: 4

Time: 2 hours

SECTION – A (Long Essay Type)

I. Answer ALL questions

Marks: 4 x 10 = 40

1.Explain Waterfall and Evolutionary Process Models in detail.

OR

2. Explain two Process Models designed for Process Iteration

3.Elaborate on functional and non-functional requirements

OR

4.Explain feasibility studies of Requirements engineering process.

5.What do you understand about real time operating systems?

OR

6.Explain the real time software design architecture with example.

7.Describe in detail the Evolution of Agile Software Engineering

OR

8.Explain different Techniques used in Software Validation.

SECTION – B (Short Essay Type)

II. Answer any FOUR

Marks: 4 x 5 = 20

9. Explain professional and ethical responsibilities.

10. Explain Software Process and attributes of a good software.


11.Elicit the importance of software requirements document.

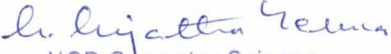
12. Explain briefly User Requirements and their importance.

13.Describe the advantages and disadvantages of software prototyping.

14.Elicit the differences between Validation and Verification.

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Question Paper format – Blooms Taxonomy Level


SECTION A - INTERNAL CHOICE				4Q X 10 M = 40 M
Question Number	Module Covered	Question	CO	BTL (Blooms Taxonomy Level)
1	Module 1	Discuss about the different types of Process Models in detail.	CO 1	Level I
2	Module 1	Explain different Techniques used in Software Project Scheduling with neat diagram.	CO 1	Level I
3	Module 2	Elaborate on functional and non-functional requirements.	CO 2	Level I
4	Module 2	Explain feasibility studies of Requirements engineering process.	CO 2	Level I
5	Module 3	What do you understand about real time operating systems?	CO 3	Level II
6	Module 3	Explain the real time software design architecture with example.	CO 3	Level II
7	Module 4	Describe in detail the Evolution of Agile Software Engineering.	CO 4	Level VI
8	Module 4	Explain different Techniques used in Software Validation.	CO 4	Level VI
SECTION B - ANSWER ANY 4 OUT OF 6 (To compulsorily have ONE question from each module)				4Q X 5 M = 20 M
9	Module 1	What is software engineering? Explain software process.	CO 1	Level I
10	Module 1	Explain professional and ethical responsibilities.	CO 1	Level I
11	Module 2	Elicit the importance of software requirements document.	CO 2	Level I
12	Module 2	What is SDLC? Write a short note on each phase.	CO 2	Level I
13	Module 3	Describe the advantages and disadvantages of software prototyping.	CO 3	Level II
14	Module 4	Elicit the differences between Validation and Verification.	CO 4	Level VI

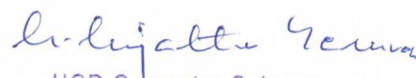
c) Question Paper Blueprint

Modules	Hours Allotted in the Syllabus	CO Addressed	Section A (No. of Questions)	Total Marks	Section B (No. of Questions)	Total Marks
1	15 hrs	CO-1	2	4x10=40	6 (By taking at least one question from each Module)	4x5=20
2	15 hrs	CO-2	2			
3	15 hrs	CO-3	2			
4	15 hrs	CO-4	2			

9.CO-PO Mapping:

CO	PO	Cognitive Level	Classroom sessions(hrs)
1	1	Remember	15
2	4,5	Remember	15
3	4,5	Apply, Remember	15
4	2	Create	15


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SOFTWARE ENGINEERING

Practical Syllabus

1. Course Description

Programme: B.Sc. S.E.(H)
Course Code: U26/CSH/DSC/201/P
Course Type: DSC
No. of credits: 1

Max. Hours: 30
Hours per week: 2
Max. Marks: 50

2. Course Objective

To understand the process of Requirements Modelling.

3. Course Outcomes

After the successful completion of the course, the student will be able to:

CO1: To develop various structures required for Requirement Engineering process

CO2: To understand how to use various tools available for the Requirement Engineering process.

4. Course Content

1. Study of case tool

Requirements:

2. Implementation of requirements engineering activities such as elicitation, validation, using case tools.

System models

3. Implementation of Analysis and design using case tools

4. Documentation generators –Study and practice of Documentation generators

5. Data Modelling using automated tools

6. Practice reverse engineering and re-engineering using tools

Case Studies (Using MS-Visio):

7. Structure charts, Data Flow Diagrams, Decision tables and UML diagrams for

- a. Online Banking System
- b. Online Shopping System
- c. Online Movie Ticket Booking System.



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- d. Online Food delivery System
- e. Inventory Control System
- f. Library Management system

5. Model Question Paper – End Semester Exam Practical


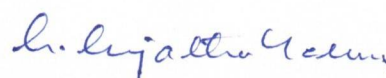

SOFTWARE ENGINEERING

Programme: B.Sc. S.E.(H)
Course Code: U26/CSH/DSC/201/P
Type of Course: DSC
No. of credits: 1


Max. Marks: 50
Time :2 hours

Answer any TWO of the Following:

1. Prepare a Use case diagram for Online Food Delivery System
2. Prepare an Activity diagram for Online Banking Pin Verification.
3. Prepare a Sequence diagram for Online Shopping System to place an order.


Prepared by	Checked & verified by	Approved by the Principal
 Ms. Renuka Teaching Faculty	 Dr. Sr. Sujatha Yeruva HOD	 Prof. Uma Joseph Principal



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Panel of Examiners

S.No.	B.Sc	Examiner	Designation Place of Work	Contact No.
1.	Semester I	Dr. Teresa	Loyola Academy Secunderabad	9949099350
		Dr. Sunitha	Kasturba Gandhi Degree and PG College for Women	9676056078
		Ms T. Vamshi Mohana	RBVRR College, Narayanguda, Hyderabad	9849338286
		Mr. Subash Chander	Nizams College, Hyderabad	9505656130
2.	Semester II	Mr Mahesh	Jagruti College	8008677784
		Mr. Ramana	Bhavan's College, Sainikpuri	9949693094
		Ms. Jacintha	Loyola Academy	9908082486
		Mr. Abhishek	Nizam's College	7286834895


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SEMESTER – III
WEBSITE DEVELOPMENT

1. Course Description

Programme: B.Sc.

Max. Hours: 30

Course Code: U24/CSC/SEC/301

Hours per week: 2

Type of course: SKILL ENHANCEMENT COURSE

Max Marks: 50

No. of credits: 2


2. Course Objectives:

- Understand what a Content Management System is and how it differs from traditional, flat websites.
- Select the appropriate server environment and be able to install WordPress's files and database. Successfully organize and present content in WordPress.

3. Course Outcome:

- **CO1:** To *Illustrate* the use of WordPress for creating and operating the websites. (Cognitive Level - 3)
- **CO2:** To *Apply* Plugin to develop a high -quality website. (Cognitive Level - 3)


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4. Course Content:**MODULE I: INTRODUCTION TO CMS & BUILDING THE WEBSITE (15 Hrs)**


Introduction to Websites, Building Websites Using Code, Website Builder and CMS, Benefits of CMS, WordPress – Installation, Dashboard, Homepage Creation, Choosing the Relevant Theme, Page Builders and Editors, Saving a Page, Using Page Links, Adding Pictures and Categories, Menus - Creating Menus, Adding Page Links to Menu, Use of Sub-Menus and Drop-Down Menus.


MODULE II: USING ADVANCED FEATURES (15 Hrs)

Embedding Google Maps, YouTube Videos, Facebook Feed in the Webpage, Adding Plugins, E-Commerce: Product Types, Adding Products, Import and Export of Products, Shipping and Delivery Costs, Payment Methods.

5. Reference Books:

1. "WordPress Masterbook 2019: -Make a Website from Scratch for Total Beginners "by Dorcas Réamonn, (Second Edition) Master book Series-2020


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6. Syllabus Focus**a) Relevance to Local, Regional, National and Global Development Needs**


Local /Regional/National /Global Development Needs	Relevance
Global	Students learn how create their website with help advance features of WordPress

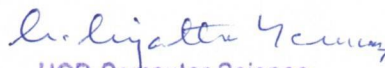
b) Components on Skill Development/Entrepreneurship Development/Employability

SD/ED/EMP	Syllabus Content	Description of Activity
Skill Development	Module 2	Development of a website with the help of a plugin present in WordPress.

7. Course Assessment Plan**a) Weightage of Marks in Formative and Summative Assessments**

Formative Assessment - FA (40%)	Summative Assessment - SA (60%)
CIA-20 marks Mini project/ Problem solving/Case studies.	End Semester Exam-30 Marks.


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b) Question Paper Pattern

MODEL QUESTION PAPER
PRACTICAL


Course Code: U24/CSC/SEC/301
Credits: 2


Max. Marks: 30
Time: 1 Hr

Answer the following:

- 1) Build an E-Commerce Word Press Website for a Flower Store. Incorporate the following components
 - a) Create a Home Page with images which gives information about the website
 - b) Create at least 2 Product Categories and 2 Products under each category (For any 2 product multiple images should be available and these products should be on sale.)
 - c) The Product Categories created and Checkout page should be available on Menu at the top
 - d) Coupon GET20 should be created to get 10% discount.
 - e) On the checkout page
Flat Shipping Rate of Rs.100 needs to be set for a minimum of 1 city
 - f) Cash on Delivery option should be enabled to place the order.

Prepared by	Checked & Verified by	Approved by
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