

Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING





Citicità i	Criteria 1	Curricular Aspects	100
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1.1 Curricular Planning and Implementation (20)

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India. (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGHY

PREFACE OF THE COURSE FILE

Batch

: 2019-2023

Academic Year

: 2019-2020/ODD

Program

: INFORMATION TECHNOLOGHY

Year & Semester

: 2nd Year / III Semester

Course Code

: CS8391

Name of the Course

: Data Structures

Faculty in-charge

: Mr. A. Vivek Ignatius, AP/IT

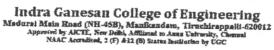
Signature of the Faculty in-charge

HoD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Mrs. M. Karthiga, AP/IT





Department of INFORMATION TECHNOLOGHY

Daniel Manage			HE STREET		
Statt Name	Code	Course Name	Semester	Lecture	Total
Mrs. K. Uthra Devi, ASP/IT	CS8494	Software Engineering	v	4	4
Mrs, S. Jenila, AP/ IT	IT8501	Web Technology	V	4	
	IT8511	Web Technology lab	V	4	8
	CS6703	Grid And Cloud Computing	VII	4	
	116713	Grid And Cloud Computing	VII	4	**
	CS8391	Data Structures	Ш	4	16
AE / 11	CS8391	Data Structures Laboratory	III	4	
	CS 8591	Computer Networks	V	4	
Mrs. V. Nancy, AP/ IT	CS8581	Networks Lah	V	4	8
	Mrs. K. Uthra Devi. ASP/IT Mrs. S. Jenila, AP/IT Mr. A. Vivek Ignatius, AP/IT	Staff Name Course Code	Mrs. K. Uthra Devi, ASP/IT CS8494 Software Engineering IT8501 Web Technology IT8511 Web Technology Iab CS6703 Grid And Cloud Computing IT6713 Grid And Cloud Computing IT6713 Mr. A. Vivek Ignatius, AP/IT CS8391 Data Structures CS8391 CS8591 CS8591 Computer Networks Mrs. V. Nancy, AP/IT CS8581	Code	Course C

Object Oriented Programming

Object Oriented Programming lab

CS8392

CS8383

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DEPARTMENT OF INFORMATION TECHNOLOGHY

Lecture Schedule

Degree/Program: B. TECH/ IT

Course code & Name : CS8391 & DS

Duration: 2017

Semester: III Faculty: Mr. A. Vivek Ignatius

AIM:

To expose the students to principle of operation and performance of electrical machines.

OBJECTIVES:

To apply the concepts of ADT's

To learn linear data structures – lists, stacks, and queues

To apply sorting, searching and hashing algorithms

To apply Tree and Graph structure

COURSE OUTCOMES:

After the course, the student should be able to:

Define linear and non-linear data structures

Implement abstract data types for linear data structures.

Implement linear and non-linear data structure operations.

Apply the different linear/non-linear data structure operations for solving a given problem.

Apply appropriate graph algorithm graph applications.

Critically analyze the various sorting algorithms.

CO	Course Outcomes	POs	PSOs				
C302.1	To Implement linear and Non-Linear Data Structure	1,2,3,4,5,6,7,8,9,10,11,12	1.2				
C302.2	To Understand the Different Operations Of Search 1,2,3,4,5,6,7,8,9,10,11,12 Trees						
C302.3	To Implement Graph Traversal Algorithms	1,2,3,4,5,6,7,8,9,10,11,12	1.2				
C302.4	To Get Familiarized To Sorting and Searching Algorithms	1,2,3,4,5,6,7,8,9,10,11,12	1,2				
C302.5	To Implementation Of Stack and Queue ADT's	1,2,3,4,5,6,7,8,9,10,11,12	1,2				

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

S.No	Date	TopicstobeCovered	Book					
UNIT-	I	LINEARDATASTRUCTURES-LIST 1						
1	1.7.19	ADT-ADT list	T1/BB					
2	4.7.19	Array Based & Linked list Implementation	R2/BB					
3	5.7.19	Singly, Circularly Doubly	T1/BB					
4	8.7.19	Application Of List	T3/BB					
5	11.7.19	Polynomial Manipulation	R3/BB					
6	12.7.19	All Operation	T2/BB					
UNIT-	П	LINEARDATASTRUCTURES-STACK&QUEUE	Target periods :06					
7	18.7.19	Stack ADT-Operations Applications	T1/BB					
8	19.7.19	Evaluation Of Arithmetic Expressions	T1/BB					
9	22.7.19	Conversion Of Infix to Postfix	R2,T1/BB					
10	25.7.19	Queue ADT Operations						
11	26.7.19	Circular Queue Priority	T1/BB					
12	29.7.19	De Queue Applications Of Queue	R2,T1/BB					
UNIT-I	II	NON-LINEAR DATA STRUCTURES - TREES	Target Periods:05					
13	8.8.19	Tree ADT Traversal Binary Tree	R3/BB					
14	9.8.19	Expression Binary Search Tree Application	T1/BB					
15	12.8.19	Threaded AVL Tree	T1/BB					
16	16.8.19	B-Tree and B+ Tree	R1/BB					
17	19.8.19	Heap & Application	T1/BB					
UNIT-I	V	NON-LINEAR DATA STRUCTURES - GRAPH	TargetPeriods:06					
18	5.9.19	Graph – Introduction & Definition	T1/BB					
19	6.9.19	Representation & Types Of Graph	T1/BB T1/BB					
20	6.9.19	BFS ,DFS	R1/BB					
21	7.9.19	TopologicalB1 Connectivity	T2/BB					
22	9.9.19	Cut Vertex, Euler Circuit	R1/BB					
23	10.9.19	Applications of Graph	T3/BB					
NIT-V	**************************************	SEARCHINGSORTINGANDHASHINGTECHNIQUES	Target Periods:05					
24	19.9.19	Searching						
25	20.9.19	Sorting & Hashing						
26	23.9.19	Hash Techniques Separate Chaining	A constant to the constant of					
28	27.9.19	Open Addressing Rehashing Extendible Hashing						

Book Reference-Text Books

SI.A. Title of the Book Author Publisher Year

- 1. Data Structures and Algorithm Analysis in C Mark Allen Weis Pearson Education, 2005
- 2. Introduction to Data Structures in C Kamthane, Pearson Education, 200

Signature of the Faculty in-charge

HoD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Register Number:	
LIAMINEAN BIRENS BARRE	



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	Internal Assessm	ent Exam - I	Date/Session	13.07.2019	Marks	50					
Course co	de CS8391	Course Title	Data Structures	SET FF SUMMARRAY AP DAY ABOVE 1 AND BAY	ABOUTE PRO PROBLES SEPTEMBERS OF THE SEPTEMBERS	Serveron or					
Regulation	2017	Duration	90 minutes	Academic Ye	ar 2020	-2021					
Year II		Semester	III	Department	IT	IT					
COURSE	OUTCOMES	10 U 000 ANDERSON DE DE DU	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		**						
CO1:	Define linear and non-linear data structures.										
CO2:	Implement abstract dat	Implement abstract data types for linear data structures.									
CO3:	-	n-linear data structure overati	* ***	1717		IV.					
CO4:	Apply the different lines	ar/non-linear data structure op	crations for solving a liven	roblem.							
CO5:		alvorithms for graph applicati			A TO	The same age for the back of the back					
CO6:		rious sortina algorithms.		to the distance the state of th							

Q.No.	Question	CO	BT
	PART A (Answer all the Questions 10 x 2 = 20 Marks)	Character (Character Character)	
1	Define Data Structure?	COI	K1
2		COl	K2
3	List out the disadvantages of Arrays?	COI	K2
	List out the advantages of using a linked list?		
5	Differentiate: Arrays and Linked Lists.	CO1	K1
**************	Define: linked List?	COI	K1
6	List out the applications of a linked list.?	COI	K1
7	List the various types of queues.?	C01	K3
8	List the applications of stacks. ?	CO2	K2
9	List out the basic operations that can be performed on a stack?	CO2	K.5
10	Define Non- linear Data Structure?	CO2	K2
	PART B (Answer all the Questions 2 x 10 = 20 Marks)		
11a	k xplain Array based implementation of elements.?	CO1	K6
	OR OR	nin Abandi 1991 - 1980 Artina ina hadanadi 1991-ya ina di Alimani (1980) Artina (1980) Artina (1980) Artina (19	
11b	Elaborate the various operations on Singly Linked List.?	CO1	K6
12a	Describe the various operations on Circularly Linked List Creation?	CO2	K2
12b	Explain the Various Operations of stack using array?	CO2	K2
	PART C (Answer all the Questions 1 x 10 = 10 Marks)	1 CO2	2.2
13a	Explain Polynomial manipulation in detail?	CO1	K2
	OR		
13b	Outline: how to convert Infix to Postfix expression with an example?	CO1	K2
	A STATE OF THE PROPERTY OF THE	Andrew Strawer	

Course Faculty

(Name /Sign / Date)

(Name /Sign / Date)

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India (Approved by AICTE, NewDelhi, Affiliated to AnnaUniversity, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGY

AssignmentQuestionPaper

	Assignment	-01	Date of Issue:		Marks	10
Course code	CS8391	Course Title	Data Structures			
Year	11	Semester/Section	III/A	Date of Submission:		

Q.No	Questions	СО
1	Elaborate the various operations on Singly Linked List.	C203.2
2	Explain Polynomial manipulation in detail.	C203.2

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DEPARTMENT OF INFORMATION TECHNOLOGY Faculty Time Table

		Mrs. A.	Vivek Ignatius	, AP/IT			
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

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Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGY

CBS-PROOF

ACADEMIC YEAR: 2019-2020 (ODD)

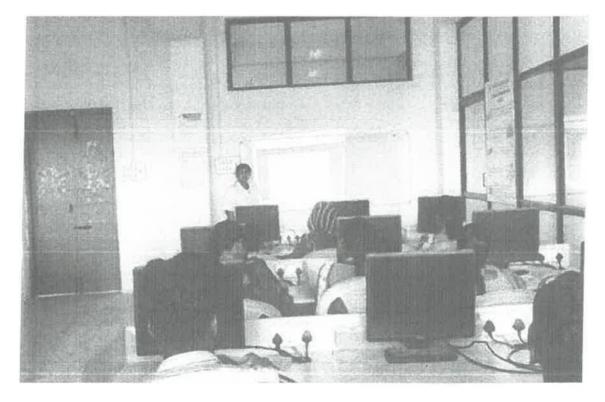
REGULATION:2021

Name of the Faculty:Mr. A. Vivek Ignatius ,AP/IT

SEM: 03

PROGRAM: IT

TOPIC: Sparce Matrix



Consider the simple matrix on the left in Figure 1.1. Many of its entries are zero (and so are omitted). This is an example of as parse matrix. The problem we are Interested in is that of solving linear systems of equations Ax=b, where the square Sparse matrix A and the vector bare given and the solution vector x is required. Such systems arise in a huge range of practical applications, including in areas as diverse As quantum chemistry, computer graphics, computational fluid dynamics, power Networks, machine learning, and optimization. The list is endless and constantly growing, together with

Systems to be solved, the sparcity of A must be exploited and operations with the Zero entries avoided. To achieve this, sophisticated algorithms are required. The majority of algorithms fall in to two main categories: direct methods and iteractive methods. Direct method strans form Ausinga finite sequence of elementary. Transformations into a product of simpler sparse matrices in such away that solving Linear systems of equations with these factor matrices is comparatively easy and inexpensive

Faculty in-Charge

HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering
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DEPARTMENTOFINFORMATIONTECHNOLOGHY

IdentificationofCurricularGap&ContentBeyondSvllabus(CBS)

Name of the Faculty: Mr. A. Vivek Ignatius AP/IT CourseCode&Name: CS8391&DS

Technology Degree & Program: B.TECH/IT Semester: III

Year: 2019 -2020/ODD

I. MappingofCourseOutcomeswithPOs&PSOs.(beforeCBS)

Table.1ManningofCOs.C.PSOswithPOs-beforeCBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C302.1	3		3		2	2						2	2	2
C302.2	3	-	3	2	-	2	2	-	2	- Courte Dands and Spanney -	_	2	2	2
C302,3	3	strane. "ya	3	-	***	2	2	-	-	- ,	2	2	2	2
C302.4	3	2	3	2	2	2	-	_ 1	2	-		2	2	2
C302.5	400	***	-		-	2	2	800		3	2	2	2	2
C302	3	2	3	2	2	7	2	**	2	3	2	-5	2	2

II. Identification of content beyond syllabus.

Table.2Identification of content beyond syllabus

DetailsofContentBeyondSyllabus(CBS)added	POsstrengthened/	CO/Unit	
· · · · · · · · · · · · · · · · · · ·	vacant filled	Corcini	
Sparce Matrix	PO9(Vacant	C302.3&C302.5/	
Spiroc Wattix	filled	III&V	1

III. MappingofCourseOutcomeswithPOs&PSOs.(After CBS)

Table.3MappingofCOs,C.PSOswithPOs-afterCBS.

AND THE PARTY OF T		PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1												
Course	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C302.1	3	2	3	-	2	2	2	-	-	3		2	2	2
C302.2	3		3	2	-	2	2	-	2	**	-	2	2	2
C302.3	3	- ,	3	-	-	2	2	-	*2	-	2	2	2	2
C302.4	3	2	3	2	2	2		101	2	-		2	2	2
C302.5	-	-	-	-	_	2	2		*2	3	2	2	2	2
C302	3	.2	3	2	2	2	2	-	4	3	2	2	2	2

Signature of the Faculty

HoD/IT

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

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DEPARTMENT OF INFORMATION TECHNOLOGHY

Assignment Question Paper

	Assignme	nt-01	Dateoflssue:	20.7.19	Marks	10
Coursecode	CS8391	CourseTitle	DataStructures	at reconstructions .		
Year	ar II Semeste		III	Dateof Submission:	1: 20.7.19	

Q.No	Questions	CO
1	Explain detail about strongly Connected Component sand Illustrate with an Example	C302.3
2	Explain Brief about B+ Tress and Discuss the application of Heap	C302.3

Mark Allocation

Rubrics	MarksAllocated	Marks obtained
Content Quality	6	5
Presentation Quality	2	2
Timelysubmission	2	
Totalmarks	10	8

Name and Signature of the Faculty In-charge

Нор/г

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

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DEPARTMENTOFINFORMATIONTECHNOLOGHY

Tutorial Question Paper

	Tutorial	-01	Date of Issue:	13.10.2019	Marks	10		
Course code	CS8391	Course Title	DATA STRUCTURES					
Year	II	Semester	III	Date of Submissi	on: 13.10.2	019		

Q.No	Questions	CO
1	Implementation Of Heaps Using Priority Queues	C302.1
2	Hashing - Any Two Collision Techniques	C302.1

Q.

Name and Signature of the Faculty In charge

HoD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Indra Ganesan College of Engineering
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DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Year 2019-2020(odd Semester)

Class: II Year / III Sem

CLASS CO-ORDINATOR:

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SUBJEC TCOD E	COLLABORATION	BRPID	CREDITS/AOUR	SPAFFIN-GHARGE
MA8351	Discrete Mathematics		3/4	Mr. Kannan, AP/Maths
CS8351	Digital Principles and System Design		3/4	Mrs. Saranya, AP/ECE
CS8391	Data Structures		3/4	Mr. Vivek Ignatius A, AP/IT
CS8392	Object Oriented Programming	·	3/5	Mrs. Uthra Devi K, AP/IT
EC8394	Analog and Digital Communication		3/4	Mrs. Bharath, AP/EEE
CS8381	Data Structures Laboratory	114111111111111111111111111111111111111	4/4	Mr. Vivek Innatius A. AP/IT
CS8383	Object Oriented Programming Laboratory	3	4/4	Virs. Uthra Devi K, AP/IT
CS8382	Digital Systems Laboratory		2/2	Mrs.Saranya AP/ECE
HS8381	Interpersonal Skills/Listening & Speaking		2/2	t Vi. 1784-be die 1889-bet Bescher Ade - ode-die Adea - ode-1 Alexandrich - ode-1 Alex

Time-Table Incharge

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Year 2019-2020 (Odd Semester)

Class: II Year / III Sem

CLASS CO-ORDINATOR:

Mr. A. Vivek Ignatius, AP/IT

Day	TEST	1		2	3	4		5	6		7	8	
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ABLE CO-ORDINATOR

HOD

PRINCIPAL

Dr. G. Balakrishnan, W.E., Principal

IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

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S.No.	Course Code	List of Reg.No Verified			Course Log Book Verified (Y / N)	Course File Verified	No of students Attended	No of Absentees	No of Failures	Pass %		Remarks	
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	HoD/II	gesteration and	- Capanda de la Capanda de Capand		S. O.	ator		To compare agen-			Principal	Sterman	

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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DEPARTMENT OF INFORMATION TECHNOLOGY

		Marrianco-recuriones	Int	ernal Asse	essmen	t Test An	swer Bo	ok		17/
Name	E	STOP	1 0			Y		Year/Se	Year/Semester/Section	
Batch No.	atch No. 2019 - 2020				Date/Session		7.8.19 AN		Department	
Course code	CS	839	71	Course Title		Data	Data Structules			
Internal Ass	essm	ent T	est				CIAT2			Model
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IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGHY

ROOT CAUSE ANALYSIS

Name of the Faculty: Mr. A. Vivek Ignorius
Degree & Program: 8. Tech(IT)

IA Test : WIII/N

: 1/ III / III/ Model

Course code & Name : CS 8391 & Data Structures

Semester & Section : 1 2500

University Exam/

Month & Year : Nov | DEC 2019

Target

957

Achieved

: 94 %.

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Signature of the Faculty

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Signature of the HOD/ IT