

SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS



INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





Currental Aspects	Criterion 1	Curricular Aspects	100
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1.1 Curricular Planning and Implementation (20)

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

Table of Contents

S.No	Description
1	Contents - Course File
2	Class Time Table
3	Subject Information Record
4	Syllabus
5	Lesson Plan
6	Test Plan For Subject
8	Result Analysis of Test
9	Quality Objective Monitoring Record
10	Students Mark List
11	Test Question paper
12	Test Answer Sheet
13	Assignment Question paper
14	Assignment Answer Sheet



SASURIE College of Engineering

Department ALLDS Subject Code & Name: AD 33514 Design and Analysis of Algorithmy. Class & Batch Class & Batch Semester

: IA	1
- II	

CONTENTS – COURSE FILE

S.NO	PARTICULARS FILE	
1	Time Table	REMARKS
2	Student name list	
3	Subject Information Record	
4	Syllabus	
5	Lesson Plan	
6	Test Plan for the Subject	•
7	Result Analysis	
8	Corrective Action Report	
- 9	Quality objective monitoring record	
10	Internal test mark shee:(Consolidated)	·
11	Internal test question paper	
12	Model question paper with answer key	•
13	Sample Answer paper for all test(Min-3)	
14	Content beyond the syllabus	
15	Tutorial Class - schedule and content	
16 .	Assignment – schedule and paper	
17	PPT - handout	-
18	Video - Animation - Soft copy	
19	Question bank	
20	Sample university question papers(min 5 QP-recent exam)	
21	Personal Log book – Updated	
22	Lecture Note	
22	Special Class if any, Approval letter, Schedule, content	
23	covered.	

	Prepared By	Approved By
Sign:	NO	
Name:	P.M. Manochitra	S. Prabalcaran.
	Faculty	HOD
		Wead, Dept. of CSE SASURIE College of Engineering Representation of the Links

DT.M. VIJAVAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056. Tirupur (Dt).



CLASS TIME TABLE - Academic year 2022-23 ODD Sem

w.e.f : .10.2022

partment : AI&	DS	MANOC	HITRA AP	/ CSE					Year&Se	m: &	
me of the facul	W INTS.P.			111	IV		V	VI		VII	VIII
NOUR DAY/ TIME	09.305 m TO 10.15 a.m.	10.155 m. TO 11.009.m.	11 00a.m 10 11.10 a.m	11.10 a.m. TO 11.55 a.m.	11-55 a.m. TO 12.40p.m.	12.40 p.m. 10 1.20 p.m.	1.20 p.ni. TO 2.00p.m.	2.00 p.m. TO 2.40p.m.	2.40 p.m. TO 2.50p.m.	2,50 p.m. TO 3,35 p.m.	3.35 p.m TO 4.20 p.m
MONDAY							DAA	DAA			
TUESDAY				DAA	DAA DAA	HUN			_		
WEDNESDAY			REAK						BREAK		
THURSDAY			BI			5					
FRIDAY							DAA	DAA			
SATURDAY					DAA						
											AL- C

			Class	NO. 01
5.No.	Subject Code	Name of the Subject	Mrs.P.M.MANOCHITRA	7
1	AD3351	Design Analysis And Algorithm	AP/CSE	
-		TOTAL		7

Sign:	Prepared by	Verified by Mr.S.PRABAKARAN	Authorized by		
Name:	Mrs.P.M.MANOCHITA	HOD 1. Compared.	PRINCIPAL		

DELEN UM VAN UMBAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).





SUBJECT INFORMATION RECORD

Department	: AI & DS
Subject	: DESIGN AND ANALYSIS OF ALGORITHM
Year	: 11
Semester	: 111
Last year handled by	· _
Percentage of Result (last year)	mesult more
Quality Objectives	TO produce received Exam. Than 95% in unwersely Exam.

Reference Book:

- 1. Ellis Horowitz, Sartaj Sahni and Sanguthevar Rajasekaran, Computer Algorithms/ C++, Second Edition, Universities Press, 2019.
- 2. Thomas H.Cormen, Charles E.Leiserson, Ronald L. Rivest and Clifford Stein, Introduction toAlgorithms, Third Edition, PHI Learning Private Limited, 2012. 3. S. Sridhar, Design and Analysis of Algorithms, Oxford university press, 2014.
- 4. Alfred V. Aho, John E. Hopcroft and Jeffrey D. Ullman, Data Structures and
- Algorithms, Pearson Education, Reprint 2006.

Sign:	Prepared By	Approved By
Name:	P.M. Manochitra.	S. Biabacaren.
	Faculty	HOD Bapt of Cat
		SASUR MAN
		Dr. M. VIJAYAKUMAR ME., Ph.D
		PRINCIPAL RASHDIE COLLEGE OF ENGINEERING.
		Vijayamangalam - 638 056, Tirupur (Dt).

DESIGNANDANALYSISOFALGORITHMS

AD3351 COURSEOBJECTIVES:

- Tocriticallyanalyzetheefficiencyofalternativealgorithmicsolutionsforthesameproblem
- Toillustratebruteforceanddivideandconquer designtechniques
- Toexplaindynamic programmingandgreedytechniquesforsolvingvariousproblems

INTRODUCTION UNITI

NotionofanAlgorithm—FundamentalsofAlgorithmicProblemSolving—ImportantProblemTypes -Fundamentals of the Analysis of Algorithm Efficiency - Analysis Framework -Asymptotic Notationsand their properties – Empirical analysis - Mathematical analysis of Recursive and Non-recursivealgorithms- Visualization

BRUTE FORCEANDDIVIDEAND CONQUER

Brute Force – String Matching - Exhaustive Search - Traveling Salesman Problem -UNITI KnapsackProblem - Assignment problem. Divide and Conquer Methodology -Multiplication of Large Integersand Strassen's Matrix Multiplication - Closest-Pair and andConquer:-TopologicalSorting-Decrease Problems. Hull Convex TransformandConquer:Presorting-Heaps andHeapSort.

DYNAMICPROGRAMMINGANDGREEDYTECHNIQUE

Dynamic programming - Principle of optimality - Coin changing problem - Warshall's and Floyd'salgorithms – Optimal Binary Search Trees - Multi stage graph - Knapsack Problem and Memoryfunctions. Greedy Technique - Dijkstra's algorithm -Huffman Trees and codes - 0/1 Knapsackproblem

ITERATIVE IMPROVEMENT UNITIV

The Simplex Method-The Maximum-Flow Problem - Maximum Matching in Bipartite Graphs- TheStablemarriage Problem.

LIMITATIONS OFALGORITHMPOWER UNITV

Lower - Bound Arguments - P, NP, NP- Complete and NP Hard Problems. Backtracking - N-Queenproblem - Hamiltonian Circuit Problem - Subset Sum Problem. Branch and Bound – LIFO Searchand FIFO search - Assignment problem – Knapsack Problem – -ApproximationAlgorithmsforNP-HardProblems-Problem Salesman Traveling TravelingSalesmanproblem-Knapsackproblem TOTAL: 45PERIODS

TEXTBOOKS:

1. AnanyLevitin, Introduction to the Design and Analysis of Algorithms, Third Edition, Pearson Education, 2012.

REFERENCES:

- 1. EllisHorowitz, SartajSahni and Sanguthevar Rajasekaran, Computer Algorithms/C++,SecondEdition,UniversitiesPress,2019
- 2. ThomasH.Cormen, CharlesE.Leiserson, RonaldL.RivestandCliffordStein, Introduction toAlgorithms,ThirdEdition,PHILearningPrivateLimited,2012.

DI.M. VUAYANGUAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt),

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SASURIE

LESSON PLAN

Paralty Name Department : Mirs P M Manachitra : CSE

Designation: Assistant Professor Semester/Year: III/II

Salajert / Cardo Academic Tata

: AD3351 /DESIGN AND ANALYSIS OF ALGORITHMS : 2011-2028(ODD)

Na	Prepare	M				Actue	•		
	Date	P rind	Details of Topic Covered	TA	Rel.	Date	Period	Hemarks	HOO sign
			UNIT I THE INTRODUCTION						
	10.00.2022	1	Notion of Algorithm	I	1	19.9.21	5		
-	11.08.2022	4	Fundamentals of Algorithmic Problem Solving	I	I	19,9.21	6		
3	12.00.2022	3	Important Problem Types	1	ī	21.9.21	3		
4	16.08.2022	4	Fundamentals of the Analysis of Algorithm Efficiency	I	1	219-22	4		
3	17.08.2022	I	Analysis Framework	I	1	22.9.22	5		
6	18.08.2022	4	Asymptotic Notations and their properties	1	1	239.22	6		
7	22.08.2022	2	Empirical analysis	Т	1	269.27	5		
8	23.08.2022	4	Mathematical analysis of Recursive and Non-recursive algorithms and Visualization	I	1	28.9.2	3		
	1		UNIT II BRUTE FORCE AND DIVIDE AN	D CO	NQUE	R			
,	25.08.2022	4	Brute Force	1	1	30.9.2	5		
10	26.08.2022	5	String Matching	1	1	30.9.2	6		
11	29.08.2022	2	Exhaustive Search , Traveling Salesman Problem	1	1	7.10.22	5		
12	30.08.2022	. 4	Knapsack Problem , Assignment problem	1	1	7.10.2	16		
13	01.09.2022	. 4	Divide and Conquer Methodology	1	1	10.10-2	13		
14	02.09.2022	5	Multiplication of Large Integers and Strassen's Matrix Multiplication	1	1	10.10.2	4		
15	05.09.2022	2	Closest-Pair and Convex - Hull Problems	1	1	12.10.2	5		
16	06.09.2022	4	Decrease and Conquer	ı	1	12.10.2	6		
17	07.09.2022	2	Topological Sorting , Transform and Conquer	1	1	14.10.7			
18	07.09.2022	1	Presorting , Heaps and Heap Sort.	1	1	14-10-2	6		
		1 A	UNIT III DYNAMIC PROGRAMMING AND G	REED	Y TE	CHNIQUE			
19	08.09.2022	4	Dynamic programming	1		19.10.2	3		
20	12.09.2022	2	Principle of optimality	1		19.102	. 4		
21	13.09.2022	4	Coin changing problem	1		21.100	25		
22	14.09.2022	1	Warshall's and Floyd's algorithms		I	1 21.10	6		
23	15.09.2022	4	Optimal Binary Search Trees		ı	1 28.10	225	-	

Dr.M.VIJAYAKUMARMEEPBD. PRINCOTAL SASUAREOOLLEGEODFENGINEERINGG, VIjayamangalami-638005565, Tinupyu, (PSI).

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LESSON PLAN

Designation: Assistant Professor Semester/ Year: III/II

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AD3351 /DESIGN AND ANALYSIS OF ALGORITHMS

-	17000 10	11-101000				Actua		Hemarks	HOD sign
				TA	Hef.	Date	Period	n.c.	
100	Dett	red Ferted	Details of Topic Covered		-	0.00	3		
24	19.09.2012	3	Multi stage graph	-	-	31.10.1	1		
25	100 00 1011	4	Knapsack Problem and Memory functions.	1	-	21.10.22	4		
26	28.09.2022	١	Greedy Technique	I	-	2.11.22	5		
27	28.09.2022	1	Dijkstra's algorithm	I	1	2.11.22	6		
28	29.09.2022	•	Huffman Trees and codes , 0/1 Knapsack problem.	1	1	4.11.22	5		
			UNIT IV ITERATIVE IMPROVEMENT				T		
29	06.10.2022	4	The Simplex Method	1	1	7.11.22	5		
30	07.10.2022	5	Introduction to The Maximum-Flow Problem	I	1	9.11.22	3		
31	10.10.2022	2	The Maximum-Flow Problem	Т	1	11.11.23	15		
32	11.10.2022	4	Introduction to Maximum Matching in Bipartite Graphs	1	1	14.11.2	25		
и	19.10.2022	1	Maximum Matching in Bipartite Graphs	1	1	16.11.2	5		
34	20.10.2022	4	Introduction to The Stable marriage Problem.	1	1	16-11-2	, 6		
35	21.10.2022	5	The Stable marriage Problem.	1	1	18.11.2	2 3		
36	26.10.2022	1	The Stable marriage Problem. Continuation	1		211112	25		
			UNIT V LIMITATIONS OF ALGORITHM PC	WEF	٤			T	
37	28.10.2022	5	Lower - Bound Arguments - P, NP, NP- Complete and N	a 1,:	3	2 2511.2	25		
38	31,10.2022	2	Backtracking , N-Queen problem	1		2 25.11-2	26		
39	01.11.2022	4	Hamiltonian Circuit Problem , Subset Sum Problem.	1		2 28.11.2	23		
40	02.11.2022	1	LCD and keyboard interfacing.	1,	3	2 30.11-	22 5		
41	03.11.2022	4	Branch and Bound , LIFO Search and FIFO search	1,	3	2 3011	276		
42	04.11.2022	5	Assignment problem, Knapsack Problem	1	,3	2 2.12-2	223	-	
43	07.11.2022	2	Traveling Salesman Problem , Approximation Algorith		3	2 5.70.	22 3		
44	08.11.2022	4	Hard Problems		3	2 7.12.2	2 5		
45	09.11.2022	I	Traveling Salesman problem , Knapsack problem		נ	2 1.12.2	2 5	-	

Reference books (Ref):

1

1. Anany Levitin, Introduction to the Design and Analysis of Algorithms, Third Edition, Pearson Education, 2012.

2. Ellis Horowitz, Sartaj Sahni and Sanguthevar Rajasekaran, Computer Algorithms/ C++, Second Edition, Universities Press, 2019.

Teaching Alds (TA): 1. Black Board with Chalk 2. Overhead Projector 3. LCD Projector Authorized by Verified by Prepared by D Sign: Mrs.P. WW Mr.S.PRABAKARAN Dr.M.VIJAYAKUMAR ochitra Name: Principal Depl. of CSE HOD Faculty



Dr.M.VIJAYAKUMAR ME PRO SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (DI).

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SASURIE College of Engineering

TEST PLAN FOR SUBJECT



Faculty: P.M. Mano Chitrie

Semester : in

Year: <u>II</u>

Department : AIKDS

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks	
1.	Porternal test :	14.10.22	(4.10.22	college rubper data 28.8-22 only	3
	2 Internal Test.	16.12.22	16.12.22	collage revote date 288 22 only.	
*					

	Prepared By	Approved By
Sign: Name:	P.M. Manochitra.	S. Prabakaran.
	Faculty	HOD
	Dr.M.VIJAYAKUMAR MI PRINCIPAL SASURIE COLLEGE OF ENGINEE Vijayamangalam - 638 056, Tirupur	E., Ph.D., SASU College of Engineering College of E



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RESULT ANALYSIS OF TEST -I

Subject :	AD 3351 Desi	gn Analyci	, q Algo>	Date	: 14.10.22
Class :	Ĩ			Department	AIRDS
Semester	iii -				
Exam details &	date 11.D	oto 12.30:	K 1410	.22. آمل درمده	tea.
Faculty	х.	:	Y.M. M		
Number of stud	lents	÷	4		
No. of students	attended	:	4		
No. of students	s absent	:	NIL		
No. of student	s passed	:	4		
No. of student	s failed	· · ·	NIL		
Percentage of	tailures		•		

RESULT DATA:

ſ	Marks	0-25	26-50	51-75	76-90	91-100	
	No. of Students	-	-	-	3		

	Prepared By	Approved By
Sign:	K	
Name:	P.M. Manochitra	S. Prabakaran
	Faculty	HOD





SASURIE RESU	SASURIE College of Engineering VijavanianBalanis, Trumpust LT ANALYSIS OF TEST -9
Subject AD 3351 / Dex Class IL Semester III Exam details & date	ign Analysis & Date 16.12.22 Department : AIKDS : 16.12.22 '. 1.30to 4.30 AM
Faculty	
Number of students	4
No. of students absent	NIL
No. of students passed	: 4
No. of students failed	
Percentage of failures	NIL

RESULT DATA:

J	ESULT DATA:			51-75	76-90	91-100
	Marks	0-25	26-50	31-75		-
	No. of Students	-	n an anna an tha an anna an anna an anna an anna an anna an an		A second and the second s	

Sign:	Prepared By	Approved By
Name:	P. M. Manachitra	HOD
	Dr.NI. VIJAVAN UMAR ME., PM PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt)	N.D. SASURIE SASURIE Gollege of Engineerine Gollege of Engineerine



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SASUPIE College of Engineering

Depa Year Sem Sut	_{irtiment} nester sject	AIKDS ii iii Design	ualitro S.	BJECTIVF	MONITOR d Algor	ing reco)RD	
			Interna	l Test-l	Internal Test-II		Model exam	
	S.No	Quality Objective	Expectin g result	Obtained result	Expecting result	Obtaine d result	Expectin g Result	Obtained result
	١	To male student obtain knowledge on Design and	Azil A Hgowing	100 %	907.	100%		

Sign: Name:	Prepared By P.M. Manochitra.	Approved By S. Psrabakasran.
	Faculty Mo	HOD Dopl. of CSt Read. Dopl. of CSt Read. SURIE
	Dr.M.VIJAYAKUMAR ME., Ph.D. PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).	College of English bass &

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ndemic Year 2022 - 2023 ODD Semester

STUDENTS NAME LIST

Department: Al&DS

Year/Sem:II / II	1
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i cal/s					MODEL
SI.	Register Number	Student's Name	INTERNAL	INTERNAL MARK 2	EXAM MARK
1	732421243001	Arun.A	83MARK I	60 AIGUE	
2	732421243003	Santhosh kumar	8876	65	
3	732421243004	Sivakumar.A	96	78	_
4	L1	Madankumar	88	60	

SIGN		R
NAME	P.M.Manochitra	Mr.S.PRABAKARAN
	CLASS ADVISOR	HOD OF TRIE
		SAS of Engineering

Dr.M. VIJAYAKUMAR ME., Ph.D.,

SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

			Re	gister Number:	
	SASURIE		S4 Col Vijavar	SURIE	ering
INTERN	NAL ASSESM	ENT - II	Date/Session	16.12.2022/AN	larks 100
Course code	AD3351	Course Title	DESIGN AND	ANALYSIS OF A	LGORITHM
Regulation	2021	Duration	3 Hours	Academic Year	2022-2023
Year	II	Semester	III	Department	AI&DS
	laryze the effic	ciency of reco	ursive and non-re	cursive algorithms	s mathematically
CO2: Ar	alyze the efficient	ciency of bru conquer algo	te force, divide an orithmic technique	id conquer, decrea es.	sc and conquer,
CO3: Im alş	plement and a gorithmic tech	analyze the p niques.	problems using dy	namic programmi	ng and greedy
CO4: So	lve the proble	ms using iter	ative improvemen	nt techniques for o	ptimization.
CO5: Co ba	ompute the lim cktracking an	itations of a d branch and	lgorithmic power d bound technique	and solve the prob es.	lems using
N			Question		

Q.No	Question	CO	BT
•			S
	DADT A		

PART A

	(Answer all the Questions10 x 2 = 20 Marks)		
1	State the principle of backtracking.	CO5	R
2	What is state space tree?	CO	U
		2	
3	What is heuristics?	CO3	R
4	Define Knapsack problem.	CO2	U
5	Define Blocking pair.	CO2	U
6	Define extreme point theorem.	CO5	Ū
7	State the general principle of greedy algorithm .	CO3	R
8	What do you mean by "Perfect Matching in bipartite graphs?	CO4	R
9	Define the single source shortest paths problem.	CO3	R
10	List out the memory functions used under Dynamic programming	CO3	U

15



PART B (Answer all the Questions 5 x 13 = 65 Marks) Explain the method for finding the minimum spanning tree for a 11a CO₂ E connected graph using Prim's algorithm with an example. OR How will find the shortest path between two given vertices using Dijkstra's CO2 11b E algorithm? Explain the pseudo code with an example. Explain stable marriage algorithm with suitable example. 12a CO1 C OR Explain n-queen's problem. Draw a portion of the state space tree and 12b CO1 U perform backtracking search for a solution to 4-queens problem. Analyze the shortest path and the corresponding distance from the source CO3 E node to the destination node as indicated in each of the cases 13 a 1-6, 5-1 and 5-2. OR Comparison between Prim's and Kruskal's algorithm and identify the 13 b CO3 E time complexity of those algorithms. Analyze all edges that form the minimum cut. And also analyze the 14 a CO4 E maximum flow problem. OR Evaluate and solve the following problem using simplex method: 14 b CO4 E Maximize p = 2x+3y+z Subject to $x+y+z \le 40, 2x+y-z \ge 10, -y-z \ge 10$ where $x \ge 0$, y≥0, z≥0, What is Class NP? Discuss about any five problems for which no 15 a CO5 E polynomial-sime algorithm has been found. YAKUMAR ME Ph D Dr.M.VI OR

.5 b	Design Branch and Bound algorithm to solve the Travelling Salesman Problem for the following graph.	CO:	5 C
	PART C		
16.0	(Answer all the Questions 1 x $15 = 15$ Marks) Write an algorithm for angle $(1 + 1)$		
10 a	example list are 5,3,1,9,8,2,4,7.	CO3	A
	OR		
16 b	Write the Huffman's Algorithm. Construct the Huffman's tree for the following data and obtain its Huffman's code. Character A B D E	CO3	А
	Probability 0.5 0.35 0 0.1 0.4 0.2		

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Course Faculty (Name/Sign/Date) P. M. Mana (hrthia



(Name/Sign/Date) (S. Prabalceview)

Principal (Name/Sign/Date) Dr.M.VIJAYAKUMAR ME., Ph.D.S PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



SASURIE College of Engineering

Internal Assessment Test Answer Book

Name	Parthoshl	aural A	Year/ Semester/Section	<u> ゴ 正</u> / A
Register	732421243003	Date/Session	16.12 2022 AN Department	AI & DS
Course code	AD3351	Course Title	Design and Analysis of Algor	îthm
Internal Assessment Test			IAT 2 IAT 3 Model	
Name and Sig	gnature of the Invigi	lator with date	tole S. Presal	son

Instructi	on to t	he Student:	Put tick mar	k to th	e question a	ttended	in the column	against question.	
1	Part	4		Р	art B/ Pai	rt C			
A	~			\checkmark	а	\checkmark	Ь	Total Marks	
Q. No.		Marks	Q. NO.		Marks		Marks		
1	5	2	11	5	10			10	
2	2	2	12			~)	10	10	
3	5	2	13			~	10	10	
4	5	2	14						
	5	2	15						
6	5	2	16			~	15	15	
7	~	2				Gr	and Total	45	
8	S	2				n _{e v}	DN No	nochitra	
9	5	2					P.M.Muroud		
10	5	2		65/100			Mon Name and	$20 2 2^2$	
Total 20			Gi	Grand Total			of the Examiner with d		

		To be f	illed by the	examiner			
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	13	19	36	15	17	-	100
Marks Obtained	10	16	33	2	4	-	65
	IQA					R	
	7	Vor Or 2	v		MA	Name ar	AC member
					Dr.M.VIJA	PRINCIPAL	ME., Ph.D.,
				An and	SASURIE COL	LEGE OF EN	SINEERING,



SASURIE College of Engineering

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Assignment Question Paper

	Assignment – 01		Date of Issue:	11.10.2022	Marks	10	
Course code	AD3351	Course Title	DESIGN AND ANALYSIS OF ALGORITHM				
Year	11	Semester/Section	III/ A	Date of Submissio	n: 19.10.2	2022	

Q.No	Questions	CO
1	Write an algorithm using recursion that determines the GCD of two numbers.	CO2
2	Explain in detail about closest pair problem, travelling sales man problem.	CO2

P. M. Manochitra

Name and Signature of the Faculty Incharge

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AL&DS HoD YAKUMAR ME., Ph.D., Dr.M.V PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Assignment Answer Sheet

Name of the Student: T.V. Siva kumar

AU Register Number: 732421243004

	Assignment – 01	~	Date of Issue:	11.10.2022	Marks	10
Course code	AD3351	Course Title	DESIGN AND ANALYSIS OF ALGORITHM			
Vear	11	Semester/Section	III/ A	Date of Submissio	n: 19.10.2	2022

Q.No	Questions	CO
1	Write an algorithm using recursion that determines the GCD of two numbers.	CO2
2	Explain in detail about closest pair problem, travelling sales man problem.	CO2

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	6
Presentation Quality	2	R
Timely submission	2	\$
Total marks	10	10

P. M. Manochitra

Name and Signature of the Faculty Incharge

Hod AI&DS

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