

VALUE-ADDED COURSE

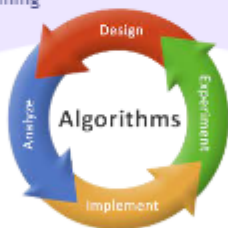
Departments of Computer Science ,IT &
Computer Applications

Data Structures and Algorithms

Starts from July 2021 – December 2021

Duration 60 Hrs

- Live Projects
- Extended lab support
- Hands-on-training



- II Year and III Year B.Sc CS, BCA, B.Sc IT
- II Year M.SC CS, M.Sc IT, M.Sc Physics, M.Sc Mathematics



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Curriculum

Data Structures and Algorithms

First Semester

Academic Year 2021 - 2022

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DATA STRUCTURES AND ALGORITHMS

SYLLABUS

OBJECTIVES OF THE COURSE

- To introduce the students basic concepts of Data Structures and Problem Solving.
- Develop algorithms for manipulating stacks, queues, linked lists, hash tables, trees, and graphs.
- Develop the data structures for implementing the above algorithms.
- Design recursive and divide and conquer algorithms.
- Familiarize the student with the issues of Time and Space complexity and examine various algorithms from this perspective.

UNIT 1: ANALYSIS OF ALGORITHMS, RECURSION, ARRAYS & STRINGS

- Growth of functions - Asymptotic Notations Omega, Theta,
- Recursion Tree Method & Space Complexity
- Introduction to Recursion & Tail Recursion
- Insertion, Deletion, Updation, Shifting elements, and other operations in an Array
- Searching and Sorting
- Problems based on Recursion, Array Manipulations, and String manipulations

UNIT 2: LINKED LISTS, STACKS, AND QUEUES

- Implementation of Linked Lists - Singly Linked List, Doubly Linked List, and Circular Linked List.
- Implementation of insertion, deletion, traversal, and reversal operations for Linked Lists.
- Problems based on Linked List.
- Implementation of Stacks and Queues using arrays and linked lists.
- Problems based on Stacks and Queues.

UNIT 3: TREES, BINARY SEARCH TREES, AND HEAPS

- Binary Tree - Implementation, Traversal, and Major Concepts
- Binary Search Tree - Implementation, Insertion, Deletion, and other operations
- AVL Trees and Red Black Trees and Applications of BST
- Heaps - Implementation and other operations
- Problems based on Trees, BST, and Heaps

UNIT 4: HASH TABLES AND GRAPHS

- Introduction to Hashing, Direct Address Table & Collision Handling, Chaining, Open Addressing & Double Hashing.
- Introduction to Graphs - Types, Representations, BFS, DFS and its applications - Detect Cycle in Undirected Graph, Detect Cycle in Directed Graph, Topological Sorting, Shortest Path Problems
- Prim's Algorithm, Dijkstra's Algorithm, Bellman Ford Algorithm, Kosaraju's Algorithm, Articulation Point, Bridges in Graph, Tarjan's Algorithm
- Coding Problems involving Hash Maps and Graphs


UNIT 5: GREEDY ALGORITHMS AND OTHER ADVANCED TOPICS

- Greedy Algorithms - Activity Selection Problem, Fractional Knapsack, Job sequencing problem, and Huffman Encoding along with other typical problems.
- Dynamic Programming - Memoization, Tabulation, LCS and its variations, Coin Change, KnapSack, LIS and its variations, Egg Drop Puzzle, Subset Sum, Matrix Chain Multiplication, Palindrome Partitioning
- Backtracking Problems
- Trie, Segment Tree and Disjoint Sets
- Problems based on Greedy Algorithms, Dynamic Programming, Backtracking Problems, and other advanced concepts covered in this unit.

COURSE LEARNING OUTCOMES

- On successful completion of the course, the students will be able to
- Apply various data structures such as stack, queue, hash table, priority queue, binary search tree, graph, and string to solve programming challenges.
- Apply basic algorithmic techniques such as greedy algorithms, binary search, sorting, and dynamic programming to solve programming challenges.
- Apply graph and string algorithms to solve real-world challenges: finding the shortest paths on huge maps and assembling genomes from millions of pieces.
- Solve complex programming challenges using advanced techniques: maximum flow, linear programming, approximate algorithms, SAT-solvers, and streaming.

Teacher: Subha





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Mark Sheet

**Data Structures
and
Algorithms**

First Semester

**Academic Year
2021 - 2022**

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Inlustro Learning Private Limited								
II BSc(CS)								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Ananthavalli A	21	0	10	9	40	C	Pass
2	Ananthi A	8	23.8	10	10	51.8	B-	Pass
3	Anitha S	5.8	24.5	10	10	50.3	B-	Pass
4	Bhuvaneswari B	0	21	10	9	40	C	Pass
5	Celcy Priseba C	5.6	17.5	10	9	42.1	C	Pass
6	Deebashika P	0	28	10	7	45	C	Pass
7	Devisri P	0	50.4	10	10	70.4	A-	High Honours
8	Dhana Priya S	6.6	39.9	10	10	66.5	B	Honours
9	Dhivyashree S	9	29.4	10	10	58.4	B-	Pass
10	Durga S	7.6	23.1	10	10	50.7	B-	Pass
11	Farghana A	6	30	10	10	56	B-	Pass
12	Harini D	4.8	16.1	10	10	40.9	C	Pass
13	Harini G	3.6	16.1	10	10	39.7	C	Pass
14	Harini Sri K	5.8	27.3	10	10	53.1	B-	Pass
15	Hema Nandhini S	7.2	24.5	10	10	51.7	B-	Pass
16	Iswarya V	6	30.1	10	10	56.1	B-	Pass
17	Jasmin J	7.2	24.5	10	10	51.7	B-	Pass
18	Jerlin A	4.8	52.5	10	9	76.3	A	High Honours
19	Kanimozhi R	15	9.1	10	10	44.1	C	Pass
20	Kaviya B	5.2	28	10	9	52.2	B-	Pass
21	Kunguma Brindha S	0	24.5	10	9	43.5	C	Pass
22	Latha Malini P	0	31.5	10	10	51.5	B-	Pass
23	Madhubala S	5	25.2	10	9	49.2	B-	Pass
24	Mallika A	0	18.9	10	10	38.9	C	Pass
25	Mangala Gowri G	8.4	26.6	10	9	54	B-	Pass
26	Monisha.S	0	24.5	10	10	44.5	C	Pass
27	Nagarani R	25	21			46	C	Pass
28	Nandhini A	0	32.2	10	10	52.2	B-	Pass
29	Navaneetha T	7.4	28	10	10	55.4	B-	Pass
30	Nivetha K	9.2	30	10	9	58.2	B-	Pass
31	Pathma M	0	25.2	10	10	45.2	C	Pass
32	Pavithra S	5	58.8	10	9	82.8	A	High Honours
33	Priyanga D	0	18.2	10	9	37.2	C	Pass
34	Ramalakshmi P	0	36.4	10	10	56.4	B-	Pass
35	Roshini C	7.6	30	10	10	57.6	B-	Pass
36	Roshni R	7.4	30	10	9	56.4	B-	Pass
37	Sangeetha S	0	18.9	10	10	38.9	C	Pass
38	Sasikala M	4.4	32.9	10	9	56.3	B-	Pass
39	Senthuradevi S	0	35	10	9	54	B-	Pass
40	Shanjana S	0	37.1	10	9	56.1	B-	Pass

41	Sharin N	0	27.3	10	10	47.3	C	Pass
42	Sneha G	7.4	24.5	10	9	50.9	B-	Pass
43	Srimathi S	0	35.7	10	10	55.7	B-	Pass
44	Srinathi B	5.8	24.5	10	10	50.3	B-	Pass
45	Subhashini R	6	39.2	10	10	65.2	B	Honours
46	Suvetha C	6.8	20	10	5	41.8	C	Pass
47	Ureshna Thirukkovai A	0	26.6	10	10	46.6	C	Pass
48	Vanitha R	0	17.5	10	10	37.5	C	Pass
49	Vidhyashree R	0	16.1	10	10	36.1	C	Pass
50	Vino U	4	34.3	10	9	57.3	B-	Pass
51	Ashmitha B	0	32.2	10	10	52.2	B-	Pass
52	Balasuguna S K	6	31.5	10	9	56.5	B-	Pass
53	Dhevadharshini D	0	25.2	10	10	45.2	C	Pass
54	Gayathri Rashika B	5.6	30.8	10	7	53.4	B-	Pass
55	Harshini K	10	20	10	7	47	C	Pass
56	Janani S	5.2	20	10	7	42.2	C	Pass
57	Lisha Devi S	6.8	30	10	10	56.8	B-	Pass
58	Mohana Priya M	5.4	30	10	9	54.4	B-	Pass
59	Nagadharshini K	0	24.5	10	9	43.5	C	Pass
60	Nandhini R	0	21	10	10	41	C	Pass
61	Nasreen Banu M	7	24.5	10	9	50.5	B-	Pass
62	Pandimeena M	0	21.7	10	9	40.7	C	Pass
63	Praveena M	0	30.8	10	9	49.8	B-	Pass
64	Priya J	0	49.7	10	10	69.7	B	Honours
65	Sagaya Reejo Rani T	7.2	19.6	10	9	45.8	C	Pass
66	Shanmugapriya S	0	27.3	10	10	47.3	C	Pass
67	Siva Sakthi M	5.6	26.6	10	9	51.2	B-	Pass
68	Swathi S	10	14	10	9	43	C	Pass
69	Vinothiya M	0	24.5	10	9	43.5	C	Pass

Inlusto Learning Private Limited								
II BCA								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Aarthi V	21	5	8	8	42	C	Pass
2	Akshaya B	10	20	8	8	46	C	Pass
3	Arthi D	0	28	8	10	46	C	Pass
4	Atchaya M	0	30.8	8	10	48.8	C	Pass
5	Bala Preethika N	5.6	28	6	10	49.6	B-	Pass
6	Deepika K	2	21	8	10	41	C	Pass
7	Dhanyalakshmi P	5	34.3	6	10	55.3	B-	Pass
8	Dharani A	7.2	34.3	6	10	57.5	B-	Pass
9	Dharani R	8.4	39.2	8	10	65.6	B	Honours
10	Dhivya Bharathi S	5.2	28.7	6	10	49.9	B-	Pass
11	Gnanamanjari K	20	10	0	10	40	C	Pass
12	Hemareka M J	0	33.6	8	10	51.6	B-	Pass
13	Jebina S	7.8	20	8	8	43.8	C	Pass
14	Jenisha J	5	21	8	8	42	C	Pass
15	Kanmani R	0	39.9	6	10	55.9	B-	Pass
16	Kareeshma E	6	14.7	6	10	36.7	C	Pass
17	Karunya Ivanjalin D	0	32.2	8	10	50.2	B-	Pass
18	Kaviya V	0	25.2	8	8	41.2	C	Pass
19	Keerthi K	0	21	8	8	37	C	Pass
20	Lakshanya G	6.4	21	6	10	43.4	C	Pass
21	Latha V	0	28	6	10	44	C	Pass
22	Leenashri P	6.4	20.3	8	10	44.7	C	Pass
23	Madhumitha M	0	32.2	8	10	50.2	B-	Pass
24	Madhumitha S	6	30.8	8	10	54.8	B-	Pass
25	Mathumathi R	0	46.9	8	10	64.9	B	Honours
26	Mutha Pathma Priyanka K	4.6	35.7	8	10	58.3	B-	Pass
27	Muthu Vega R	0	25.2	8	8	41.2	C	Pass
28	Nagarani M	0	27.3	8	8	43.3	C	Pass
29	Nandhana P	0	31.5	8	8	47.5	C	Pass
30	Nishanthini P	6.8	28	8	10	52.8	B-	Pass
31	Nityasre N	0	31.5	10	10	51.5	B-	Pass
32	Nivetha A	7.2	32.2	8	10	57.4	B-	Pass
33	Padmavathy J	4.6	24.5	8	10	47.1	C	Pass
34	Pavala Kumari S	0	25.2	8	10	43.2	C	Pass
35	Pavithra P	6.4	24.5	8	10	48.9	C	Pass
36	Ratchaka R	15	10	6	10	41	C	Pass
37	Santhiya S	7.2	25.2	10	10	52.4	B-	Pass
38	Shalini B	0	28	8	8	44	C	Pass
39	Shalini G	0	38.5	6	8	52.5	B-	Pass
40	Sindhumathi S	0	37.1	10	8	55.1	B-	Pass

41	Sneka Sri A K	5	20	8	8	41	C	Pass
42	Subaleka P	0	24.5	8	8	40.5	C	Pass
43	Sujitha P	0	44.8	0	8	52.8	B-	Pass
44	Sushmitha R	8.4	16	8	10	42.4	C	Pass
45	Vijayashanthi M	0	32.9	6	10	48.9	C	Pass
46	Vinisha B	7.2	28	8	10	53.2	B-	Pass
47	Yasmin Begum M	6.6	27.3	8	10	51.9	B-	Pass
48	Yogapriya M	0	24.5	8	8	40.5	C	Pass
49	Priyanka D	0	28	8	8	44	C	Pass

Inlustro Learning Private Limited								
II BSc(IT)								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Akila Sivakami.P	0	24.5	8	8	40.5	C	Pass
2	Arifa.A	0	33.6	8	8	49.6	B-	Pass
3	Indhumathi G.J	10	20	8	8	46	C	Pass
4	Jayasurya.S	10	15	8	10	43	C	Pass
5	Kavibala.A	4.4	24.5	8	10	46.9	C	Pass
6	Mahajothi.S	6	16.8	8	10	40.8	C	Pass
7	Preetha.P	0	19.6	8	8	35.6	C	Pass
8	Priyadharshini.B	0	21	8	8	37	C	Pass
9	Priyanka.B	4.8	27.3	8	10	50.1	B-	Pass
10	Rahiyath.T	0	56.7	8	8	72.7	A-	High Honours
11	Raja Shree.G	0	18.2	8	8	34.2	C	Pass
12	Ribhadharshini.B	10	15	8	8	41	C	Pass
13	Sobiya Banu.S	0	50.4	8	8	66.4	B	Honours
14	Subashri.S	5.8	23.1	10	10	48.9	C	Pass
15	Vishnupriya.R	0	19.6	8	8	35.6	C	Pass

Inlustro Learning Private Limited								
II MSc(CS)								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Abirami G	0	32.2	10	10	52.2	B-	Pass
2	Angu R	6.4	20	10	8	44.4	C	Pass
3	Anto Vinnarasi I	0	24.5	10	8	42.5	C	Pass
4	Anugracy P	6	31.5	10	8	55.5	B-	Pass
5	Anuranjani C	0	28	8	8	44	C	Pass
6	Atshaya P	5	20	8	8	41	C	Pass
7	Baby Shalini N	10	20	8	10	48	C	Pass
8	Geethu M	5.6	20	8	8	41.6	C	Pass
9	Haripriya D	0	27.3	8	10	45.3	C	Pass
10	Jothika S	20	40	10	10	80	A	High Honours
11	Keerthana N	0	58.8	10	8	76.8	A	High Honours
12	Maheswari R	0	42	8	8	58	B-	Pass
13	Mariya Aroni J	0	37.1	10	10	57.1	B-	Pass
14	Muthamil R	7.6	20	10	8	45.6	C	Pass
15	Pavithra A	0	36.4	8	8	52.4	B-	Pass
16	Roshika R	0	26.6	8	10	44.6	C	Pass
17	Sathiya I	8.4	26.6	8	8	51	B-	Pass
18	Subha Priya R	0	28	10	8	46	C	Pass
19	Sudarvizhi B	22	12	8	8	50	B-	Pass
20	Tamilaruvi S	21	20	8	8	57	B-	Pass
21	Usha T	0	39.2	8	8	55.2	B-	Pass
22	Vaidehi K	12	21	8	8	49	C	Pass

Inlustro Learning Private Limited								
II Msc(IT)								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Bavithra P	20	30	10	10	70	B	Honours
2	Florence Jennifer J	7.4	20	10	10	47.4	C	Pass
3	Nithyaa R	6	19.6	10	10	45.6	C	Pass
4	Nivetha M	20	10.5	10	10	50.5	B-	Pass
5	Rajarajeswari S	5.6	21.7	10	10	47.3	C	Pass
6	Rajeswari D	0	28.7	10	10	48.7	C	Pass
7	Saro Elanthirai S	0	20	8	10	38	C	Pass
8	Shalini R	0	20	10	10	40	C	Pass
9	Shamsath Begum M	4.8	11.9	10	10	36.7	C	Pass
10	Sridevi S	0	34.3	10	10	54.3	B-	Pass
11	Sundaravadivu S	8.8	12.6	10	10	41.4	C	Pass
12	Swathipriya K	3.6	13.3	10	10	36.9	C	Pass
13	Thulasi P	0	32.2	10	10	52.2	B-	Pass
14	Vidhya S	5.4	21	10	10	46.4	C	Pass
15	Yogharani S	0	16.8	10	10	36.8	C	Pass

Inlustro Learning Private Limited								
II MSc Maths								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Gowri.R	7.8	27.3	8	10	53.1	B-	Pass
2	Suvathi.M	0	18.9	8	10	36.9	C	Pass
3	Banupriya.A	0	46.2	8	10	64.2	B	Honours
4	P.Dharani	5.4	58.8	8	10	82.2	A	High Honours
5	Iswaria S.K	0	42	8	10	60	B	Honours
6	Pricilla Jancy	6.6	27.3	8	10	51.9	B-	Pass
7	Shobana.V	7.2	45.5	8	10	70.7	A-	High Honours
8	Abinaya.M	8	47.6	8	10	73.6	A-	High Honours
9	Kokila. m	5.6	54.6	8	10	78.2	A	High Honours
10	Sangeetha .P	7	53.9	8	10	78.9	A	High Honours
11	Praveena.D	9.4	49	8	10	76.4	A	High Honours
12	Nancy.A	0	44.1	6	10	60.1	B	Honours
13	Vinothini.A	6.2	35.7	8	10	59.9	B	Honours
14	Dhana Lakshmi.S	0	28.7	8	10	46.7	C	Pass
15	Miruthula.R	7.2	29.4	8	10	54.6	B-	Pass
16	Naviya .S	0	27.3	8	10	45.3	C	Pass
17	vaishali.A	7.2	15	8	10	40.2	C	Pass
18	kamali.S	5.6	20	8	10	43.6	C	Pass
19	sarumathi.E	6.4	20	8	10	44.4	C	Pass
20	shalini	6.6	24	10	10	50.6	B-	Pass
Inlustro Learning Private Limited								
II MSc Physics								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	R.Santhoshini	6.2	30.8	10	10	57	B-	Pass
2	R. Subashini	7	42.7	10	10	69.7	B	Honours

Inlusto Learning Private Limited								
III BSc (CS)								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Akalya V	8.4	50.4	8	10	76.8	A	High Honours
2	Akshaya S B	7.8	39.9	8	10	65.7	B	Honours
3	Alphonsa Jenifer U	5.6	24.5	8	10	48.1	C	Pass
4	Amirthavarshini A	10	20	8	6	44	C	Pass
5	Aruna A	0	36.4	8	6	50.4	B-	Pass
6	Bhargavi B	6.4	26.6	8	10	51	B-	Pass
7	Bhuvaneshwari R	20	20	0	0	40	C	Pass
8	Deepa V	0	25.9	8	6	39.9	C	Pass
9	Deepalakshmi C	0	35.7	8	6	49.7	B-	Pass
10	Deepalakshmi V	7.8	35.7	6	10	59.5	B	Honours
11	Dhivyadharshini S	0	35.7	8	8	51.7	B-	Pass
12	Divya R	5	45.5	8	10	68.5	B	Honours
13	Durka T	0	34.3	6	8	48.3	C	Pass
14	Girija R	0	24.5	8	8	40.5	C	Pass
15	Harini S	5.4	57.4	8	10	80.8	A	High Honours
16	Heabushree B	8.2	36.4	8	10	62.6	B	Honours
17	Hemalatha R	0	33.6	8	8	49.6	B-	Pass
18	Karthika M	5.6	38.5	8	10	62.1	B	Honours
19	Karthika M	6.4	20	8	10	44.4	C	Pass
20	Kiruthika K	15	19.6	6	8	48.6	C	Pass
21	Kokila D	0	32.9	6	8	46.9	C	Pass
22	Kowsalya M	0	44.8	8	6	58.8	B-	Pass
23	Kowsalya S	6.2	20	4	6	36.2	C	Pass
24	Madhumitha A	8	36.4	8	10	62.4	B	Honours
25	Nandhini E	4.8	35.7	8	10	58.5	B-	Pass
26	Pavithra K	8	44.8	8	10	70.8	A-	High Honours
27	Priya B	8	37.1	8	10	63.1	B	Honours
28	Priyadharshini S	0	50.4	6	8	64.4	B	Honours
29	Ramya N	0	26.6	8	8	42.6	C	Pass
30	Rasika M	0	27.3	8	8	43.3	C	Pass
31	Revathi R	6	36.4	8	10	60.4	B	Honours
32	Sarulatha M	0	28.7	6	8	42.7	C	Pass
33	Sathya M	0	30.8	6	8	44.8	C	Pass
34	Shanthi S	0	25.2	6	8	39.2	C	Pass
35	Shneka P	0	28	6	8	42	C	Pass
36	Shobana K	8	54.6	8	10	80.6	A	High Honours
37	Sinduja B	7	20	8	10	45	C	Pass
38	Sivaranjani L	7.6	36.4	8	10	62	B	Honours
39	Sneha A	7.8	18	8	10	43.8	C	Pass
40	Srivarshini E	7.2	49	8	10	74.2	A-	High Honours

41	Subashini A	0	36.4	8	8	52.4	B-	Pass
42	Swetha A	6.6	25.2	8	10	49.8	B-	Pass
43	Vasundra Devi E	4.8	19.6	8	10	42.4	C	Pass
44	Vinitha V	4.8	36.4	8	10	59.2	B	Honours
45	Vinothini R	0	35	8	8	51	B-	Pass
46	ABIRAMI .L	6.8	61.6	8	10	86.4	A	High Honours
47	ARCHANA .S	8	20	6	6	40	C	Pass
48	BANUMATHI .M	9.2	65.1	10	10	94.3	A	High Honours
49	BHUVANESHWARI .P	6.4	21.7	8	10	46.1	C	Pass
50	BRINDHA .C	0	32.2	6	8	46.2	C	Pass
51	DEBBORA SHARON .P	4.2	20	6	10	40.2	C	Pass
52	DEEPA .S	8.4	54.6	8	10	81	A	High Honours
53	DEEPIKA .G	5.8	60.2	8	8	82	A	High Honours
54	DEEPIKA .S		53.9	10	10	73.9	A-	High Honours
55	DEIVANAI .R	15	18	6	8	47	C	Pass
56	DENSIYA .J	0	53.2	6	8	67.2	B	Honours
57	DHANALAKSHMI .P	8.8	57.4	10	10	86.2	A	High Honours
58	GAYATHRI .K	8	29.4	8	10	55.4	B-	Pass
59	HARIPRIYA .C	0	23.1	6	10	39.1	C	Pass
60	HARINI.M	15	15	8	8	46	C	Pass
61	HENRIKA PERSIS.R	8	25	0	8	41	C	Pass
62	KANIMOZHI.A	10	18	6	8	42	C	Pass
63	KARTHIKA.S	7.4	24.5	8	10	49.9	B-	Pass
64	KAVITHA.K	0	24.5	4	8	36.5	C	Pass
65	KAVIYA.M	5.2	18.2	10	10	43.4	C	Pass
66	KEERTHANA .K	5.8	36.4	10	10	62.2	B	Honours
67	KEERTHANA .K	0	26.6	10	8	44.6	C	Pass
68	KEERTHINI .R	10	20	4	8	42	C	Pass
69	KIRUTHIKA .S	7.4	29.4	10	10	56.8	B-	Pass
70	LAVANYA .S	0	47.6	8	10	65.6	B	Honours
71	MALIKA .M	6	44.8	6	8	64.8	B	Honours
72	MANJA MATHADEVI .D	5	20	8	8	41	C	Pass
73	MANJU .A	0	41.3	8	8	57.3	B-	Pass
74	MEENA KUMARI .D	8	17.5	8	8	41.5	C	Pass
75	NISHA .S	0	24.5	2	8	34.5	C	Pass
76	NITHYA SHREE .J	0	20.3	10	8	38.3	C	Pass
77	PADMAVATHI .G	7.8	46.9	10	10	74.7	A-	High Honours
78	PAVITHRA .K	7.6	29.4	10	10	57	B-	Pass
79	PAVITHRA .N	0	59.5	6	8	73.5	A-	High Honours
80	PAVITHRA .S	7	59.5	10	10	86.5	A	High Honours
81	PREETHI .V	0	54.6	10	8	72.6	A-	High Honours
82	PRIYA DHARSHNI .P	0	30.1	8	8	46.1	C	Pass
83	PRIYA .R	10	21.7	4	8	43.7	C	Pass

84	PRIYA DHARSHNI .K	6.4	20	4	10	40.4	C	Pass
85	PRIYA DHARSHNI .S	7	23.1	4	10	44.1	C	Pass
86	PUNITHA .K	0	42	8	8	58	B-	Pass
87	RAGAVI .K	0	33.6	8	8	49.6	B-	Pass
88	RUBIKA .S	6.8	34.3	8	10	59.1	B	Honours
89	SAKTHI DEEPTHA .K	5.6	18.2	2	10	35.8	C	Pass
90	SARANYA .D	0	27.3	10	8	45.3	C	Pass
91	SHANMUGA PRIYA .S	0	48.3	4	8	60.3	B	Honours
92	SHOFIYA .D	5	20	6	10	41	C	Pass
93	SIVA DHARSHNI .B	6.4	32.9	6	10	55.3	B-	Pass
94	SNEHA .A	7	29.4	10	10	56.4	B-	Pass
95	SNEHA .M	0	30.8	8	8	46.8	C	Pass
96	SNEHA .P	8	30.8	6	10	54.8	B-	Pass
97	SNEKA .S	7.2	63	8	8	86.2	A	High Honours
98	SOPHIA .J	6	20	6	8	40	C	Pass
99	SOWMIYA .J	5	27.3	8	10	50.3	B-	Pass
100	SRINIDHI .S.P	0	59.5	8	8	75.5	A	High Honours
101	AMEERA BEGAM .B	5.8	20	8	8	41.8	C	Pass
102	NARAYANI .B	0	33.6	10	10	53.6	B-	Pass
103	SUBALAKSHMI .K	0	36.4	10	10	56.4	B-	Pass
104	SUBARANJI.M	0	25.9	10	10	45.9	C	Pass
105	SURUTHY .V	7.4	66.5	10	10	93.9	A	High Honours
106	VAISHNAVI .R	5.4	30.1	10	10	55.5	B-	Pass
107	VIDHYA BHARATHI .N	6.2	37.1	10	10	63.3	B	Honours
108	YUVARANI .V	0	35	6	10	51	B-	Pass

Inlusto Learning Private Limited								
III BCA								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Abirami.V	8.2	50.4	6	10	74.6	A-	High Honours
2	AbiramiSri.G	8.4	25.9	6	10	50.3	B-	Pass
3	Anushiya.V	7.8	42.7	6	10	66.5	B	Honours
4	Archana.T	0	53.2	6	8	67.2	B	Honours
5	Archana.V	15	20	5	5	45	C	Pass
6	Arivukodi.A	0	42	6	8	56	B-	Pass
7	Atchaya.R	0	51.1	6	8	65.1	B	Honours
8	Chandrasena.N	20	9	6	8	43	C	Pass
9	Elakkiya.E	6.6	49.7	6	10	72.3	A-	High Honours
10	Faritha Begam.S	15	12	5	8	40	C	Pass
11	Gayathri.P	5	20	6	10	41	C	Pass
12	Hishani.V	8.4	14.7	6	10	39.1	C	Pass
13	Ishwarya.S	6	47.6	6	10	69.6	B	Honours
14	Iswarya.R	6	49	6	10	71	A-	High Honours
15	Janani.R	0	45.5	6	8	59.5	B	Honours
16	Janani.V	8.2	46.2	6	10	70.4	A-	High Honours
17	Karthika.C	0	52.5	6	8	66.5	B	Honours
18	Keerthiga.M	0	38.5	6	8	52.5	B-	Pass
19	Krishnitha.S	8	18.9	6	8	40.9	C	Pass
20	MadhuMitha.M	5.6	37.8	6	10	59.4	B	Honours
21	Mahalakshmi.K	0	40.6	6	10	56.6	B-	Pass
22	MangalaDharshini.E	6	62.3	6	10	84.3	A	High Honours
23	Mirsha.S	8	21.7	6	10	45.7	C	Pass
24	Nagalakshmi.B	8	20	6	8	42	C	Pass
25	Priyadharshini.S	5	31.5	6	10	52.5	B-	Pass
26	Rajalakshmi.S	6.2	43.4	6	10	65.6	B	Honours
27	Rasika Priya.K	0	41.3	6	8	55.3	B-	Pass
28	Rasika.S	0	30.8	6	8	44.8	C	Pass
29	Sahana.S	0	44.8	6	8	58.8	B-	Pass
30	Sandhiya.S	2.2	32.2	6	10	50.4	B-	Pass
31	Sandhiya.S	3.8	25	6	8	42.8	C	Pass
32	Sandhiya.T	5.8	35	6	10	56.8	B-	Pass
33	Saranya.K	0	42	6	8	56	B-	Pass
34	Shahitha.K	6	25.2	6	10	47.2	C	Pass
35	Sharmila.L	5	42.7	6	10	63.7	B	Honours
36	Sharmila.P	0	34.3	6	8	48.3	C	Pass
37	Sharmili.K	0	56	6	8	70	B	Honours
38	Sineka.M	7	55.3	6	10	78.3	A	High Honours
39	Srinithi vidhya.N	5.8	30.8	6	10	52.6	B-	Pass
40	Suwetha.K	8.2	53.9	6	10	78.1	A	High Honours

41	Vinothini.A	0	37.1	6	8	51.1	B-	Pass
42	Yuvarani.N	7.8	30.1	6	10	53.9	B-	Pass
43	Abirami.R	10	16.8	6	8	40.8	C	Pass
44	Abirami.V	6.4	28	6	10	50.4	B-	Pass
45	Aboorvaa.B.S	6.6	14.7	6	10	37.3	C	Pass
46	Anitha.M	8	41.3	6	10	65.3	B	Honours
47	Aruna.A	15	12	6	8	41	C	Pass
48	Bavadharani.S	0	28.7	6	8	42.7	C	Pass
49	Bettisheyabeski.A	0	32.2	6	8	46.2	C	Pass
50	Durgadevi.S	0	25.9	6	8	39.9	C	Pass
51	Fariha Fathima.I	11	15	6	8	40	C	Pass
52	Gayathri.V	0	39.9	6	8	53.9	B-	Pass
53	Harini.P	8	18.9	6	10	42.9	C	Pass
54	Heera.V	7	25.2	6	10	48.2	C	Pass
55	Ishwarya.B	12	12	6	10	40	C	Pass
56	Janaki.K	10	16.1	6	8	40.1	C	Pass
57	Jayanthi.G	15	12	6	8	41	C	Pass
58	Jayasakthi.C	0	21	6	8	35	C	Pass
59	Karthika.T	9.6	10.5	6	10	36.1	C	Pass
60	Kavitha.A	15	14	6	8	43	C	Pass
61	Keerthika.K	0	23.1	6	8	37.1	C	Pass
62	Manimekalai.G	8	25.2	6	10	49.2	B-	Pass
63	Mohanapriya.M	20	6	6	8	40	C	Pass
64	Pavithra.A	0	28	6	8	42	C	Pass
65	Pavithra.J	6	25.2	6	10	47.2	C	Pass
66	Pavithra.N	0	25.2	6	8	39.2	C	Pass
67	Punitha.S	6.8	23.8	6	10	46.6	C	Pass
68	Ragaveni.C	20	12	4	5	41	C	Pass
69	Rajalakshmi.G	8.4	44.8	6	10	69.2	B	Honours
70	Ramya.R	15	13.3	6	8	42.3	C	Pass
71	Reshma.S	4.8	14	6	10	34.8	C	Pass
72	Sineha.M	10	18.9	6	8	42.9	C	Pass
73	Sneha.B	0	23.1	6	8	37.1	C	Pass
74	Sri Sakthiya.G.A	8	24.5	6	10	48.5	C	Pass
75	Subashini.P	0	24.5	6	8	38.5	C	Pass
76	Suhasini.P	8.8	21	6	10	45.8	C	Pass
77	Suruthi.T	10	24.5	0	8	42.5	C	Pass
78	Thamaraiselvi.V	15	21	0	8	44	C	Pass
79	Thavasua.A	7	21	6	10	44	C	Pass
80	Vimala.V	6.6	24.5	6	10	47.1	C	Pass
81	Vinetha.R	18	13.3	6	8	45.3	C	Pass
82	Vinodha.K	8.8	27.3	6	10	52.1	B-	Pass
83	Vinothini.B	6	24.5	6	10	46.5	C	Pass

84	Vivetha.D	16	15.4	6	8	45.4	C	Pass
85	M.G.Amalashree	7.2	58.8	6	10	82	A	High Honours

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Inlustro Learning Private Limited								
III BSc(IT)								
S.no	Name	Mid term	Final	Assignment	Attendance	Total	Grade	
1	Aarthi.E	0	50.4	8	8	66.4	B	Honours
2	Abarna.L	12	15	8	10	45	C	Pass
3	Arthikashree.A.N.	5.2	37.1	8	10	60.3	B	Honours
4	Devi.S	0	39.9	8	8	55.9	B-	Pass
5	Hema latha.M	0	41.3	8	8	57.3	B-	Pass
6	Keerthana.N	6.6	47.6	8	10	72.2	A-	High Honours
7	Keerthana.P	7.6	42	8	10	67.6	B	Honours
8	Mahima.D.V.S	9	64.4	8	10	91.4	A	High Honours
9	Prasanna Nayaki.M	0	54.6	8	8	70.6	A-	High Honours
10	Priyadharshani.A	0	58.1	8	8	74.1	A-	High Honours
11	Rega chitty.D	7	42	8	10	67	B	Honours
12	Sakthisri.S	8.8	57.4	8	10	84.2	A	High Honours
13	Sathiya priya	12	20	0	8	40	C	Pass
14	Sathya. C	7.2	67.9	8	10	93.1	A	High Honours
15	Sentamizselvi	2.6	40.6	8	10	61.2	B	Honours
16	Sivappiriya.G	0	26.6	8	8	42.6	C	Pass
17	Subha sri.H	6.4	46.9	8	10	71.3	A-	High Honours
18	Thulasimani.P	5.4	58.8	8	10	82.2	A	High Honours
19	Vaishnavi.S	0	36.4	8	8	52.4	B-	Pass
20	Yuvasri.M	9.6	62.3	8	10	89.9	A	High Honours





CERTIFICATE

OF COMPLETION



This Certifies that

Arifa.A

II B.Sc(IT) at **Indira Gandhi College**, has successfully completed the **Data Structures and Algorithms** course
(July 2021 to December 2021)

A handwritten signature in black ink, likely belonging to Aditya Sambamoorthy.

Aditya Sambamoorthy

Founder & CEO

InLustro