

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH






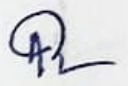
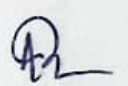

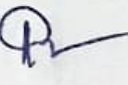



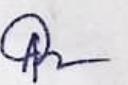
PROGRESS REGISTER Session-2022-2023

Discipline: Computer Science & Engg.

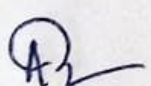

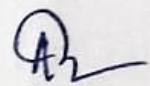





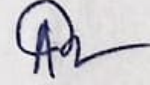


Semester: 3rd Subject: DS

Name of the Teaching Faculty: Ashis Behera

Subject: DS No. of Days/per week class allotted 04Semester From Date: 15/09/2022 To Date: 21/01/2023 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
15/9/22	Data & Information Data types	Data and Information Data types.	Data, information & Data type.	
16/9/22	Data structures & operators	DS and operators.	DS and operators.	
19/9/22	Abstract Data type	ADT.	ADT.	
21/9/22	Algorithm & it's complexity.	Algorithm & it's complexity	Algm & it's complexity.	
22/9/22	Time, space tradeoff.	Time space tradeoff	Time space tradeoff.	
23/9/22	String storing string	String & storing string	String & storing string.	
26/9/22	Character Data types Examp.	Character data types with Ex.	Character data types with Ex.	
28/9/22	string operators	String operators	String operators	
29/9/22	Array.	Array.	Array.	
20/9/22	Linear Array & it's representation	Linear Array & it's represent.	Linear Array & it's represent.	
10/10/22	traversing Linear Array	traversing Linear Array.	traversing Linear Array	


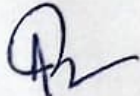




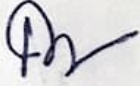




Subject: DS No. of Days/per week class allotted 04Semester From Date : 15/09/2022 To Date : 21/11/2022 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
12/10/22	Inserting into Array	Inserting into Array.	Inserting into Array.	
13/10/22	Deleting from Array.	Deleting from Array.	Deleting from Array.	
14/10/22	Multidimensional Array & its representation	Multidimensional Array & its representation	2-D Array & its representation	
17/10/22	Row major & Column major	Row major & Column major.	Row major & Column major.	
19/10/22	Pointers & Sparse Matrix	Pointers and Sparse Matrix	Pointers & Sparse Matrix	
20/10/22	Intro. to Stack & Queue.	Stack & Queue Introduction	Stack & Queue.	
21/10/22	Array represent. of Stack.	Array represent. of Stack.	Array represent. of Stack.	
24/10/22	Arithmetic expr. & Polish notation.	Arithmetic expressing & Polish Notation	Arithmetic expression & Polish Notation	
27/10/22	Prefix & infix.	Prefix and infix.	Prefix & infix notation	
28/10/22	Postfix	Postfix notation	Postfix notation.	
31/10/22	Conversion of Polish notatn.	Conversion of Polish Notatn.	Conversion of Polish Notatn.	

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2/11/22	Application of Stack.	Application of Stack.	Application of Stack.	Ar
3/11/22	Recursion	Recursion.	Recursion.	Ar
4/11/22	Queue & it's representation.	Queue & it's representation	Queue & it's representation.	Ar
7/11/22	Circular & priority Queue.	Circular Queue & Priority Queue.	Circular & priority Queue.	Ar
9/11/22	- do -	- do -	- do -	Ar
10/11/22	Linked list.	Linked list.	Linked list.	Ar
11/11/22	representation of Linked list	Linked list representation	Linked list representation	Ar
14/11/22	traversing Linked list.	traversing Linked list	traversing Linked list	Ar
17/11/22	searching in Linked list	searching in Linked list	searching in Linked list	Ar
18/11/22	Garbage Collection	Garbage Collection	Garbage Collection?	Ar
21/11/22	inserting into a Linked list	inserting into Linked list	inserting into Linked list	Ar


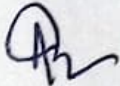


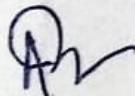

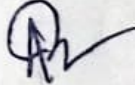

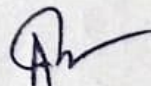

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
23/11/22	Deleting from a linked list	Deleting from a linked list	Deleting from a linked list	
24/11/22	- do -	- do -	- do -	
25/11/22	header linked list	header linked list	header linked list.	
28/11/22	Introduction to Tree.	Intro. to tree.	Intro. to tree.	
30/11/22	Binary Tree.	Binary Tree.	Binary tree.	
1/12/22	Binary tree Representation.	Binary tree representation.	Binary tree representation	
2/12/22	Pre-Order traversal	Pre-Order traversal.	Pre-Order traversal.	
5/12/22	Post-Order traversal	Post-Order traversal.	Post-Order traversal.	
7/12/22	In-Order traversal	In-Order traversal.	In-Order traversal	
8/12/22	traversal Example.	traversal Example.	traversal Example.	
9/12/22	Binary Search tree	Binary Search Tree	Binary Search Tree.	

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
12/12/22	Searching in BST.	Searching BST	Searching BST.	Ar
14/12/22	Inserting into BST	insert into BST.	insert into BST.	Ar
15/12/22	Deletion from BST	Delete from BST.	Delete from BST.	Ar
16/12/22	Examples of BST.	BST Examp.	BST Examp.	Ar
19/12/22	- do -	do	- do -	Ar
21/12/22	Graphs.	Graph.	Graph.	Ar
22/12/22	Representation of Graphs.	Graph representation.	Graph representation.	Ar
23/12/22	Adjacency matrix.	Adjacency matrix	Adjacency matrix.	Ar
26/12/22	Path matrix	Path Matrix	Path matrix	Ar
28/12/22	Path matrix.	- do -	- do -	Ar
29/12/22	- do -	do.	do.	Ar

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30/12/22	Bubble sort	Bubble sort	Bubble sort	
21/1/23	Quick sort.	Quick sort	Quick sort	
4/1/23	Merging.	Merging.	Merging.	
5/1/23	Binary search	Binary search	Binary search	
9/1/23	Linear search	Linear search	Linear search	
11/1/23	Files, & it's Organizer.	Files & it's Organizer	Files & it's Organizer	
12/1/23	Sequential, Random, Index seq.	Sequential index seq. & direct access.	Sequential, index seq. & direct access	
13/1/23	Hashing & Hash function	Hashing & hash function	Hashing & hash function	
14/1/23	Collision Resolution	Collision Resolution.	Collision Resolution	
18/1/23	open addressing	open addressing.	open addressing	
20/1/23	do.	discussion	discussion	